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FOREIGN AGRICULTURE CIRCULAR

U.S. DEPARTMENT OF AGRICULTURE
Foreign Agricultural Service Washington D.C.

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FD 10-61
November 1961

WORLD OUTPUT OF DAIRY PRODUCTS UP IN FIRST HALF OF 1961

World production (milk equivalent-fat basis) of factory dairy products in the first 6 months of 1961 increased about 3 percent over comparable 1960. Output of butter, cheese and dried milk was up, that of canned milk was about the same.

Production conditions in Western Europe varied, but output in the larger countries was substantially higher and for the area as a whole, production was up. In France and the United Kingdom, a mild winter followed by a warm, early spring kept pastures in good condition and sharply increased milk production. More cows and higher yields in West Germany raised milk production above a year earlier. Conditions also favored dairy production in Finland, and output was up slightly over the high level of 1960. A gradual rise in cow numbers, together with higher yields, were contributing factors to increased production in Ireland. In Denmark, production for the 6-month period was about the 1960 level.

In Sweden, Norway and Switzerland, milk production in the first 6 months of 1961 was down somewhat from the year before.

In Australia, below-average rainfall in the principal dairying districts in the first quarter held production for the entire period below the 1960 level. There were dry conditions in New Zealand in the second quarter, and dairy production was down slightly.

This circular contains more detailed information than the summary published in the monthly supplement issue of Foreign Crops and Markets of October 26, 1961.

Milk production was up in both Canada and the United States, mainly because of increased yields per cow.

Creamery butter output in the first half of 1961 rose 2 percent over the same period of 1960. Production in Western Europe was up 3 percent, due largely to the heavier output in France and West Germany, where the percentage of milk used in the production of butter continued to rise.

In the United Kingdom, there was a substantial rise in milk available for butter. In Ireland, larger quantities went to plants for butter. Production in Finland kept pace with a year earlier.

In Denmark, a sharp decline in the first quarter brought butter output for the 6-month period below comparable 1960. Reduced milk supplies in Sweden in the first quarter also were reflected in lower butter production in the January-June period. Other countries of Western Europe in which output of butter declined were the Netherlands, Switzerland and Norway.

In Australia, the decrease in milk production reduced supplies available for butter in the first quarter and held output for the 6-month period below a year earlier. A sharp decline in production in New Zealand in the months April-June brought output for the first half of the year below the level of the first half of 1960.

More milk was available for butter in Canada and the United States.

Cheese production in factories in January-June 1961 was 7 percent above the corresponding months of 1960. Output in Western Europe rose about 2 percent. Production increased in all reporting countries except Norway and Sweden. It showed little change in France.

In Australia, a sharp rise in output in the second quarter offset the reduced output of the preceding 3 months and for the January-June period as a whole, production was up. In New Zealand, cheese production was up.

Output in Canada was little changed. Output ran well ahead of the earlier year throughout the period in the United States.

Production of canned milk (condensed and evaporated) in the first half of 1961 about equaled the corresponding period of 1960. Output in the Netherlands continued to rise. In West Germany, France and the United Kingdom, production dropped below the 1960 level. Australia's output was about the same. In Canada, production was up, larger quantities of the more heavily produced evaporated whole milk accounting for the increase. Output of total canned milk in the United States exceeded that of a year earlier.

Dried milk production, mainly nonfat, was 2 percent above the first 6 months of 1960. Output of both types of dried milk increased in France and West Germany. A sharp decline in outturn of dried whole milk in the Netherlands offset the increase in nonfat dry milk and production of total dried milk dropped substantially.

In Sweden and Switzerland, less dried whole milk and nonfat dry milk were manufactured in January-June 1961 than in the same months of 1960. British output was down.

Lower nonfat dry milk production in Australia brought total dried milk output in that country below 1960. New Zealand reports only nonfat dry milk, output of which in the first 6 months of 1961 dropped sharply from 1960.

Production in Canada and the United States was up; increased output of nonfat dry milk in both countries accounted for the gain.

Current Conditions Abroad

Australia: Feed conditions are good in most dairy areas except in Queensland, and prospects are favorable for the remainder of the year.

New Zealand: The new season, beginning in July, was off to a slow start, with production below the record figures established last year. So far, only in Auckland province has there been any improvement in production conditions.

Ireland: Present conditions are favorable for milk production.

Canada: Thus far, 1961 has been an unusually good year for dairy production; new records are expected.

FACTORY DAIRY PRODUCTS: Output in principal producing and exporting countries, January-June 1961 (preliminary) with comparisons

Country	1960			1961			Jan.-June 1961 compared with Jan.-June 1960
	January through March	April through June	Total January-June	January through March	April through June	Total January-June	
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Percent
BUTTER							
Canada	41,322	109,589	150,911	44,284	112,767	157,051	104
United States	367,217	415,675	782,892	371,420	444,835	816,255	104
Denmark	88,625	110,450	199,075	82,893	111,553	194,446	98
Finland	41,594	60,009	101,603	41,010	60,646	101,656	100
France	86,010	137,415	223,425	98,876	146,052	244,928	110
Germany, West	213,892	258,077	471,969	221,681	281,141	502,822	106
Ireland	4,894	17,907	22,801	6,631	20,536	27,167	119
Netherlands	42,507	75,136	117,643	33,803	1/75,677	109,480	93
Norway	8,176	16,535	24,711	6,974	16,430	23,404	95
Sweden	36,789	58,777	95,566	32,732	56,876	89,608	94
Switzerland	18,968	24,974	43,942	14,449	22,167	36,616	83
United Kingdom	15,456	31,808	47,264	21,952	1/37,513	59,465	126
Argentina	47,196	27,113	74,309	44,129	--	--	--
Union of South Africa	26,940	19,765	46,705	--	--	--	--
Australia	123,191	49,043	172,234	103,347	55,845	159,192	92
New Zealand	138,058	44,560	182,618	140,509	37,767	178,276	98
CHEESE							
Canada 2/	11,625	36,438	48,063	11,125	36,751	47,876	100
United States	325,570	446,338	771,908	376,960	498,400	875,360	113
Denmark	54,674	81,571	136,245	55,777	87,302	143,079	105
France	165,782	210,656	376,438	168,482	207,129	375,611	100
Netherlands	81,383	138,103	219,486	82,959	1/147,061	230,020	105
Norway	20,380	29,552	49,932	18,556	30,579	49,135	98
Sweden	27,172	38,755	65,927	23,126	41,506	64,632	98
Switzerland	27,353	42,604	69,957	27,743	43,636	71,379	102
United Kingdom 3/	46,368	87,136	133,504	52,416	1/91,929	144,345	108
Argentina	71,539	59,132	130,671	77,754	--	--	--
Union of South Africa	9,189	6,057	15,246	--	--	--	--
Australia	25,456	12,004	37,460	23,670	15,606	39,276	105
New Zealand	59,810	18,361	78,171	64,933	21,583	86,516	111
CANNED MILK							
Canada 4/	64,600	110,690	175,290	60,131	116,204	176,335	101
United States 5/	445,132	731,415	1,176,547	471,580	744,115	1,215,695	103
France	49,445	93,468	142,913	38,294	87,553	125,847	88
Germany, West	194,653	264,890	459,543	177,415	264,974	442,389	96
Netherlands	177,360	240,695	418,055	181,439	1/254,831	436,270	104
United Kingdom	92,064	171,584	263,648	80,416	1/165,884	246,300	93
Argentina	8,587	4,429	13,016	7,438	--	--	--
Australia 6/	44,152	17,042	61,194	41,045	20,096	61,141	100
DRIED MILK 7/							
Canada 8/	28,733	72,466	101,199	31,337	77,509	108,846	108
United States 8/	509,616	647,547	1,157,163	505,310	688,800	1,194,110	103
France	28,583	56,577	85,160	43,603	69,580	113,183	133
Germany, West	48,696	73,938	122,634	47,597	82,615	130,212	106
Netherlands	36,446	118,546	154,992	28,045	1/107,395	135,440	87
Sweden	12,103	20,571	32,674	8,522	23,314	31,836	97
Switzerland	5,539	7,853	13,392	4,973	6,556	11,529	86
United Kingdom	39,648	70,784	110,432	42,560	1/62,385	104,945	95
Argentina	8,761	6,085	14,846	22,198	--	--	--
Australia	34,659	12,451	47,110	29,637	16,647	46,284	98
New Zealand 9/	27,510	8,435	35,945	21,228	4,088	25,316	70

1/ Estimated. 2/ Cheddar cheese only. 3/ Total cheese production. 4/ Both bulk and case goods. 5/ Evaporated whole and condensed whole case goods only. 6/ Includes mixtures of full cream and skimmed milk, mixtures of full cream, skim and buttermilk, and "coffee and milk." 7/ Dried whole milk and nonfat solids production. 8/ Includes dried milk for animal feeding. 9/ Nonfat dry milk production only.

Foreign Agricultural Service. Compiled from reports of U. S. Agricultural Attaches and Foreign Service Officers, official government statistics, results of office research and related information.

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WORLD MILK OUTPUT UP 1 PERCENT IN 1961

World milk production in 1961 is expected to increase about 1 percent over 1960, based on preliminary estimates of output in 34 countries which normally produce about 85 percent of the world's supply.

Gains or maintained production are expected in all but 7 countries. In Western Europe, where most countries had a good dairying season, production probably will be up about 2 percent. In Denmark, excellent mid-season pastures and abundant domestically-produced feeds point to higher milk production than in 1960.

In West Germany, yields rose markedly after the beginning of the new season; milk cow numbers also were up from the earlier year. The Netherlands has had a good dairy season. Conditions also have been favorable for milk production in Finland and Austria. Among other countries in which higher milk production is expected in 1961 are Italy, the United Kingdom, Ireland and Norway. Production in France probably will show little change.

In Sweden, milk cow numbers are down from a year ago, and milk production is expected to be somewhat less. A slight decline also is indicated in Belgium and Switzerland.

In Eastern Europe, milk production in 1961 will probably approximate that of a year earlier.

In the Southern Hemisphere, production is expected to reach the 1960 level. Somewhat higher cow numbers, together with an improvement in herds, should bring increased output in Chile and Venezuela. In Argentina and Brazil, milk production probably will be about the same as last year.

In New Zealand, where climatic conditions favored dairying, milk production was up. In Australia, production is expected to show a slight decline. Although feed conditions have improved in most areas, any resulting increase in milk production in the latter part of the year is not expected to offset the sharply curtailed output early in the year.

In the Western Hemisphere, cow's milk production probably will be 2 percent above 1960. Output in Canada, where the year has been unusually favorable for milk production, is expected to set a record. In both Mexico and the United States, output in 1961 is expected to exceed 1960.

Compared with the 1951-55 average, milk production for the 34 countries is expected to be up 22 percent. In Western Europe, where all countries except Sweden report increases, overall production will be substantially above the average. Eastern Europe is expected also to show a gain over the 1951-55 period.

In the Southern Hemisphere, an increase of 17 percent over the average is expected.

Output in the Western Hemisphere countries is expected to be up about 8 percent.

Growth Through Agricultural Progress

Cow's milk: Estimate of 1961 production in important producing countries, with comparisons

Countries	Average 1951-55	Annual			1961 compared with
		1959	1960	1961 1/	1960
	Million pounds	Million pounds	Million pounds	Million pounds	Percent
Canada	16,339	18,186	18,433	20,000	108
Mexico	3,806	5,544	5,680	5,990	105
United States	119,222	121,989	122,920	124,400	101
Austria	5,336	6,122	6,283	6,535	104
Belgium	7,771	8,278	8,579	8,355	97
Denmark	11,521	11,962	11,896	11,985	101
Finland	6,147	7,253	7,628	7,765	102
France	38,051	44,719	49,940	50,000	100
Germany, West	36,023	40,657	42,450	42,990	101
Greece	494	811	832	855	103
Ireland	5,257	6,320	6,540	6,770	104
Italy	16,663	20,430	21,270	22,335	105
Luxembourg	395	450	460	450	98
Netherlands	12,654	14,132	15,098	15,735	104
Norway	3,554	3,698	3,868	3,945	102
Sweden	9,829	8,386	8,653	8,595	99
Switzerland	5,977	6,541	6,797	6,510	96
United Kingdom	23,250	25,628	27,933	28,710	103
Yugoslavia	2/ 3,324	5,066	5,223	5,350	102
Bulgaria	658	1,180	1,158	1,160	100
Czechoslovakia	7,568	8,311	8,433	8,855	105
Germany, East	8,616	11,559	11,369	11,025	97
Hungary	3,180	4,380	4,280	4,200	98
Poland	20,651	27,121	27,035	26,950	100
Rumania	3,952	4,850	5,450	5,500	101
U.S.S.R.	79,080	113,315	112,500	113,000	100
Japan	1,613	3,781	4,162	4,830	116
Argentina 3/	10,108	9,859	10,279	10,285	100
Brazil	7,294	10,551	10,971	11,025	100
Chile	1,587	2,162	2,082	2,155	104
Uruguay	1,220	1,372	1,612	1,625	101
Venezuela	2/513	911	986	1,035	105
Australia	4/12,518	14,752	14,070	13,805	98
New Zealand 5/	11,187	11,874	11,722	11,914	102
Total of above countries	495,358	582,150	596,592	604,639	101

1/ Preliminary. 2/ Less than a 5-year average. 3/ Milk for commercial use only; milk consumed on farms and milk fed not included. 4/ Excludes milk fed to livestock. 5/ Years ending June 30.

Foreign Agricultural Service. Compiled from reports of U. S. Agricultural Attaches and Foreign Service officers, official government statistics, results of office research and related information.

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WORLD TRADE IN DAIRY PRODUCTS, 1959, 1960, AND INDICATIONS FOR 1961

Summary

World trade in dairy products in 1960 was down somewhat from the 1959 record. Trade in butter, cheese, and nonfat dry milk declined as Western Europe recovered from the 1959 summer drought and production returned to normal.

The most significant changes in trade were in evaporated whole milk and nonfat dry milk. Evaporated whole milk gained 16 percent, but exports of nonfat dry milk were down 33 percent.

New Zealand, the Netherlands, Denmark, and Australia as usual were the major suppliers and the United Kingdom the major importer. There was a substantial decrease in shipments of all dairy products to Western Europe as milk production in that area recovered from the effects of the 1959 drought. Two expanding markets, Asia and Africa, increased imports of most dairy products.

World trade in dairy products should rise somewhat in 1961. Most of the major supplying countries have reported pasture conditions as excellent and record or near-record milk production.

Butter: World exports of butter at 1,143 million pounds were 6 percent below the 1959 record. Exports from New Zealand, leading supplier, dropped 83 million pounds, but shipments from that country accounted for 31 percent of the world total. Exports from Denmark, the second ranking supplier, were about unchanged from 1959, while Australia, third ranking exporter, shipped 38 million pounds less than in 1959.

France almost doubled its exports as stocks and production returned to normal. In general, 1960 was a good dairy year in Western Europe and recovery from drought greatly reduced butter import needs.

The world butter market continued to be highly concentrated, with the United Kingdom taking 79 percent of total exports, compared with 76 percent in 1959. British imports were down 3 percent to 900 million pounds as domestic production rose substantially. France reduced gross imports of butter from 62 million pounds to 19 million as output returned to normal and foreign supply commitments could be met from domestic sources. Italy increased its imports from 17 million pounds to 47 million and displaced West Germany as the second ranking butter market. West Germany's imports were off 38 percent; its production of butter rose sharply. East Germany became an important market with imports from Denmark and Sweden increasing from 1 million pounds in 1959 to 22 million pounds in 1960.

World exports of butter in 1961 will probably increase slightly over 1960. Production in most of the principal exporting countries during the first 6 months was at about the high level of 1960 and stocks were heavy. Exports from New Zealand and Denmark are not likely to increase significantly because of greater competition in the United Kingdom market from several minor supplying countries of Europe. World butter prices are currently only a little above the postwar lows of early 1958.

Cheese: World cheese trade in 1960 showed a slight decrease (0.5 percent) to 932 million pounds, the first decrease since 1957. Western Europe, the major market area, took 76 percent of total exports.

The Netherlands, New Zealand, and Denmark were the leading suppliers, in that order, exporting 63 percent of the world total. The Netherlands increased exports by 3 percent to 241 million pounds while exports from New Zealand and Denmark declined 5 percent and 4 percent, respectively. New Zealand concentrated on the United Kingdom as its only European market and supplied 166 million pounds, or 59 percent of Britain's total cheese imports.

The United Kingdom was the leading cheese importer, taking 280 million pounds, down 9 percent from 1959. West Germany, second ranking importer, took 226 million pounds, up 3 percent over 1959. Asia and Africa substantially increased their imports in 1960 while total West European imports dropped. This decline was due almost entirely to smaller shipments to the United Kingdom.

Indications are that 1961 cheese exports will be up from 1960. In New Zealand, second ranking supplier, cheese production in the first half of 1961 was about 16 percent ahead of comparable 1960. Preliminary production and export data for the first half of 1961 indicate that exports of other major suppliers will also be somewhat higher.

Dry Whole Milk: World exports of dry whole milk were 250 million pounds in 1960, a 9 percent increase over 1959.

The Netherlands remained the leading exporter by increasing shipments to 92 million pounds, or 37 percent of total world exports. Shipments from Canada rose from 18 million pounds to 32 million. This sharp rise in Canadian exports was made possible by a rapid increase in output, following implementation of a special price support purchase program for dry whole milk.

Venezuela continued as the major market, taking 80 million pounds, or 32 percent of total world exports. Asia's imports climbed 29 percent to 59 million pounds. Ample supplies of fresh milk in Western Europe in 1960 reduced import requirements for processed milks in that area and imports of dry whole milk were down by 6 million pounds, or 10 percent.

World exports of dry whole milk in 1961 may be down again as imports into Venezuela appear to have reached a peak in 1960 and supplies from domestic sources continue to expand. Demand in Asia should continue strong. Canada may again increase exports due to the large stocks on hand in early 1961.

Nonfat Dry Milk: World commercial trade in nonfat dry milk decreased 33 percent from the 1959 record. This was due to a more nearly normal pattern of demand in Western Europe where import requirements in 1959 were unusually high because of the drought-induced shortage of fresh milk. Shipments in 1960 totaled 317 million pounds, down 156 million from 1959, with all major exporting countries reporting significant declines.

U. S. commercial exports decreased from 168 million pounds in 1959 to 79 million in 1960. Reduced sales under Title I, Public Law 480, and the sharp decline in demand in Western Europe were largely responsible. Despite a decline in exports of 17 million pounds, New Zealand replaced the United States as the leading commercial exporter of nonfat dry milk. Canadian exports were down 31 million pounds from 1959.

The United Kingdom was still the leading importer, taking 25 percent of total exports. The Philippines became the second largest commercial market, increasing its imports from 27 million pounds in 1959 to 32 million in 1960.

Commercial trade in nonfat dry milk in 1961 should be slightly above the 1960 level. During the first half of 1961 milk production was above comparable 1960 in many supplier countries and output of nonfat dry milk was at, or near record levels. Prices of nonfat dry milk in most countries fell to record lows early in the year. Shipments to the major deficit areas of Asia and Africa are expected to increase.

Evaporated Whole Milk: World trade in evaporated whole milk reversed its downward trend of the previous 2 years as exports in 1960 rose 16 percent to 444 million pounds. The increase was mainly due to a 50-percent increase in Philippines imports.

The Netherlands, leading supplier, increased exports 19 percent to 257 million pounds while U. S. exports rose 22 percent to 101 million pounds. These 2 countries accounted for 81 percent of total exports. The United Kingdom and France also showed slight increases in exports.

The Philippines, with imports of 84 million pounds, continued to be the leading market for evaporated milk. The second ranking market, Cuba, increased imports to 23 million pounds. Other expanding markets were Asia and Africa, whose imports rose 33 percent and 20 percent, respectively.

The 1961 commercial trade in evaporated whole milk should be up slightly from the 1960 level. Exports from the Netherlands will probably be up and U. S. shipments are expected to continue at about the 1960 level.

Condensed Whole Milk: World exports of condensed whole milk increased 32.5 million pounds in 1960, up 6 percent. Asia was the major market, increasing its imports by 7 percent to take 68 percent of total shipments.

The Netherlands, leading exporter, increased shipments 12 percent to 346 million pounds, or 59 percent of total world exports. The United Kingdom increased exports 29 percent to 57 million pounds and became the second ranking exporter. Denmark's shipments of 52 million pounds were down 15 percent, dropping that country to third place in rank of exporters.

Malaya and Singapore, the major importers, increased imports 7.3 million pounds and accounted for 25 percent of total purchases. Imports by the next largest markets, Indochina and Burma, also rose in 1960.

Indications are that exports of condensed whole milk may be up again in 1961. Asia is an expanding market and South America and Africa are also taking larger quantities.

UNITED STATES DEPARTMENT OF AGRICULTURE
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Growth Through Agricultural Progress

Table 1.--Butter 1/: Exports of major supplying countries by destination, 1959 and 1960 2/

Destination	Argentina		Australia		Denmark		Finland		France		Netherlands		New Zealand		United States 3/		Other		Total	
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960
	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds
Western Europe:																				
Belgium-Luxembourg	--	--	--	--	2.0	0.3	--	--	--	--	5.7	0.6	--	--	--	--	--	--	7.7	0.9
France	10.7	1.5	6.9	5.2	14.1	0.4	--	--	--	--	22.8	7.7	6.7	4.5	--	--	1.1	--	62.3	19.3
Germany, West	0.2	--	2.4	3.0	14.9	7.1	2.5	1.8	5.1	10.7	22.2	11.1	7.4	5.3	4.1	0.6	14.3	6.0	73.1	45.6
Italy	0.9	2.2	5.4	--	2.3	1.6	--	4/	0.4	17.4	0.7	19.5	4/	--	3.1	--	3.7	5.8	16.5	46.5
Switzerland	--	--	--	--	0.7	0.2	1.4	--	0.2	0.1	4/	0.3	--	--	--	--	2.7	0.3	5.0	0.9
United Kingdom	33.9	44.1	148.8	116.0	212.1	223.6	27.2	49.8	2.6	11.0	30.6	37.1	392.8	319.5	10.9	--	65.5	98.4	924.4	899.5
Others	--	--	--	0.1	1.5	--	--	--	--	--	0.1	0.4	--	--	0.2	--	2.9	--	4.7	0.5
Total	45.7	47.8	163.5	124.3	247.6	233.2	31.1	51.6	8.3	39.2	82.1	76.7	406.9	329.3	18.3	0.6	90.2	110.5	1,093.7	1,013.2
Eastern Europe:																				
Czechoslavakia	--	--	--	--	1.1	2.6	--	4.9	--	--	--	--	--	--	--	--	--	--	1.1	7.5
Germany, East	--	--	--	--	0.5	10.4	--	--	--	--	0.2	--	--	--	--	--	0.2	11.6	0.9	22.0
Others	--	--	--	--	--	--	7/13.3	--	--	--	--	--	--	--	--	--	--	--	13.3	--
Total	--	--	--	--	1.6	13.0	13.3	4.9	--	--	0.2	--	--	--	--	--	0.2	11.6	15.3	29.5
North America:																				
British West Indies	--	--	--	--	--	--	--	--	--	--	--	--	1.5	0.1	0.1	--	1.9	1.2	3.5	1.3
Cuba	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.6	0.1	--	--	1.6	0.1
Netherlands West Indies	--	0.5	0.1	0.2	--	--	--	--	--	--	0.3	0.3	0.4	0.4	--	--	--	--	0.8	1.4
Panama	--	--	--	--	--	--	--	--	--	--	--	--	1.8	1.9	--	0.1	--	--	1.8	2.0
United States	--	--	--	4/	0.2	0.1	--	--	--	--	--	--	1.0	1.2	--	--	--	0.3	1.2	1.6
Jamaica	--	--	--	0.1	--	--	--	--	--	--	--	4/	5.3	4.6	--	--	--	--	5.3	4.7
Others	--	--	--	0.2	--	--	--	--	0.4	--	0.3	0.4	3.4	1.5	0.4	0.1	--	--	4.5	2.2
Total	--	0.5	0.1	0.5	0.2	0.1	--	--	0.4	--	0.6	0.7	13.4	9.7	2.1	0.3	1.9	1.5	18.7	13.3
South America:																				
Peru	1.7	3.2	--	0.3	0.4	0.7	--	--	--	--	--	0.2	3.9	3.0	0.5	4/	--	--	6.5	7.4
Venezuela	--	--	--	--	--	--	--	--	--	--	4/	0.1	--	--	0.2	0.1	--	--	0.2	0.2
British Guiana	--	--	0.3	--	--	--	--	--	--	--	--	--	0.2	0.2	--	--	--	--	0.5	0.2
Others	--	3.5	--	0.7	--	--	--	--	--	0.4	0.3	1.0	--	1.8	0.1	--	--	--	0.4	7.4
Total	1.7	6.7	0.3	1.0	0.4	0.7	--	--	--	0.4	0.3	1.3	4.1	5.0	0.8	0.1	--	--	7.6	15.2
Asia:																				
Israel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lebanon	--	--	--	--	1.3	1.6	--	--	--	--	--	0.1	--	--	--	--	0.1	0.1	1.4	1.8
Ceylon	--	--	2.1	2.5	--	--	--	--	--	--	--	--	0.7	0.6	--	--	--	--	2.8	3.1
Hong Kong	--	--	1.8	1.9	--	--	--	4/	--	--	--	4/	1.3	1.5	0.2	0.1	--	--	3.3	3.5
India	--	--	--	4/	--	--	--	--	--	--	--	--	4/	4/	--	--	--	--	--	--
Malaya & Singapore	--	--	4.6	4.4	--	--	--	--	--	--	--	--	0.8	0.9	--	--	--	--	5.4	5.3
Philippines	--	--	0.2	0.4	--	--	--	--	--	--	--	--	0.8	0.5	0.1	0.3	--	--	1.1	1.2
Others	--	--	1.8	5.1	1.4	0.4	--	--	0.2	0.1	0.2	0.3	0.5	1.7	2.3	4.9	--	--	6.4	12.5
Total	--	--	10.5	14.3	2.7	2.0	--	--	0.2	0.1	0.2	0.4	4.1	5.2	2.6	5.3	0.1	0.1	20.4	27.4
Africa:																				
Republic of Ivory Coast	--	--	--	--	--	--	--	--	9/	0.5	9/	9/	--	--	--	--	--	--	9/	0.5
Republic of Madagascar	--	--	--	--	--	--	--	--	0.5	0.5	9/	0.3	--	--	--	--	--	--	0.5	0.8
Algeria	--	0.7	--	--	0.3	1.5	--	--	13.3	7.8	2.9	5.0	--	--	--	--	--	1.0	16.5	16.0
Republic of Congo	--	--	--	--	1.2	0.7	--	--	--	0.1	0.5	0.1	--	4/	--	--	--	--	1.7	0.9
Republic of Senegal	--	--	--	--	--	--	--	--	9/	0.8	9/	9/	--	--	--	--	--	--	9/	0.8
Morocco	3.0	1.7	--	--	3.1	3.3	--	--	--	--	0.1	0.2	--	--	0.1	4/	0.3	0.5	6.6	5.7
Tunisia	--	--	--	--	8/	8/	--	--	0.8	2.2	--	0.4	--	--	--	--	--	--	0.8	2.6
Republic of South Africa	--	--	1.7	0.8	--	--	--	--	--	--	--	--	3.9	2.7	--	--	--	--	5.6	3.5
Others	--	--	--	1.0	0.1	--	--	--	2.6	0.5	0.7	1.2	--	--	--	--	--	0.1	3.4	2.8
Total	3.0	2.4	1.7	1.8	4.7	5.5	--	--	17.2	12.4	4.2	7.2	3.9	2.7	0.1	--	0.3	1.6	35.1	33.6
All others	3.2	0.1	5.8	1.9	2.8	5.8	2.8	0.1	0.8	0.1	0.4	0.3	4.0	1.1	0.1	--	6.0	1.2	25.9	10.6
Grand Total	53.6	57.5	181.9	143.8	260.0	260.3	47.2	56.6	26.9	52.2	88.0	86.6	436.4	353.0	24.0	6.3	98.7	126.5	1,216.7	1,142.8

1/ Includes butter equivalent of anhydrous butterfat and ghee. 2/ Preliminary. 3/ Exclusive of donations under Public Law 480. 4/ Less than 50,000 pounds. 7/ All to U.S.S.R. 8/ Included with Algeria.
9/ Included with "other".

Table 2.--Cheese: Exports of major supplying countries, by destination, 1959 and 1960 1/

Destination	Australia		Denmark		Finland		France		Italy	
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960
	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds
Western Europe:										
Austria	--	--	1.5	2.2	4.3	3.8	--	--	0.4	0.5
Belgium-Luxembourg	--	--	3.0	2.2	3.8	4.1	4.6	5.1	1.3	1.3
France	--	--	4.1	1.5	2.0	1.6	--	--	5.5	6.5
Germany, West	--	--	93.4	84.7	5.8	8.1	3.3	5.0	0.9	1.3
Greece	--	--	0.2	0.2	--	0.2	--	--	0.8	0.3
Italy	--	--	9.4	10.0	5.1	4.5	0.5	2.8	--	--
Spain	--	--	--	--	--	2/	--	--	--	--
Sweden	--	--	5.9	7.3	1.2	1.7	--	--	0.2	0.2
Switzerland	--	--	1.2	1.3	--	--	2.4	2.4	7.8	7.4
United Kingdom	34.3	32.7	22.9	23.5	1.4	2.2	2.5	2.8	2.4	2.7
Other	--	--	0.3	--	--	--	0.1	--	0.2	0.3
Total	34.3	32.7	141.9	132.9	23.6	26.2	13.4	18.1	19.5	20.5
Eastern Europe:										
Czechoslovakia	--	--	--	0.4	--	2.0	--	--	--	2/
Germany, East	--	--	8.0	8.3	--	2.2	--	--	--	--
Other	--	--	--	4/2.1	--	--	--	--	--	--
Total	--	--	8.0	10.8	--	4.2	--	--	--	--
North America:										
British West Indies	0.2	2/	--	--	--	--	--	--	--	--
Canada	--	--	3.1	3.2	--	0.1	0.5	0.6	2.4	3.0
Cuba	--	--	--	--	--	--	--	--	--	--
Mexico	--	--	--	--	--	--	--	--	2/	0.1
Netherlands W. Indies	--	--	--	--	--	--	--	--	--	--
United States	--	--	3/7.7	8.4	2.3	1.8	2.5	2.8	20.0	21.8
Other	--	0.1	--	--	--	--	0.8	--	--	--
Total	0.2	0.1	10.8	11.6	2.3	1.9	3.8	3.4	22.4	24.9
South America:										
Peru	--	--	0.6	0.5	--	0.1	--	--	--	--
Venezuela	--	--	6.1	4.1	--	0.5	--	--	1.6	1.8
Other	--	0.1	--	--	--	--	--	--	--	--
Total	--	0.1	6.7	4.6	--	0.6	--	--	1.6	1.8
Asia:										
Israel	--	0.1	--	--	--	--	--	--	--	--
Japan	0.1	0.4	0.3	--	--	--	--	--	0.1	0.1
Lebanon	--	0.1	--	--	--	0.2	--	--	0.3	0.4
Malaya & Singapore	0.7	0.8	--	--	--	--	--	--	2/	2/
Philippines	0.9	0.8	--	--	--	--	--	--	--	--
Turkey	--	--	--	--	--	--	--	--	--	--
Other	3.5	5.7	--	0.2	--	0.9	--	--	0.6	0.7
Total	5.2	7.9	0.3	0.2	--	1.1	--	--	1.0	1.2
Africa:										
Algeria	--	--	1.0	1.3	--	2.3	34.1	36.5	0.2	0.1
Republic of Congo	--	--	--	--	--	2/	--	0.2	0.1	2/
Egypt	--	0.1	--	--	--	--	--	--	--	2/
Republic Ivory Coast	--	--	--	--	--	--	5/	0.7	--	--
Republic of Senegal	--	--	--	--	--	--	5/	1.4	--	--
Republic of Madagascar	--	--	--	--	--	--	5/	0.8	--	--
Morocco	--	--	1.6	1.1	--	0.7	2.7	2.5	0.1	0.1
Tunisia	--	--	--	--	--	0.3	1.7	0.9	0.1	0.1
Others	--	0.5	--	--	--	0.1	4.9	1.2	0.7	1.0
Total	--	0.6	2.6	2.4	--	3.4	43.1	44.2	1.2	1.3
Oceania	--	--	0.6	1.1	--	--	--	--	0.5	1.0
All others	0.3	0.4	3.3	3.8	13.4	--	2.0	3.2	0.3	1.0
Grand Total	42.5	41.8	174.2	167.4	39.3	37.4	62.3	68.9	46.5	51.7

Table 2.--Cheese: Exports of major supplying countries, by destination, 1959 and 1960 1/--Continued

Netherlands		New Zealand		Switzerland		United States		Others		Total	
1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960
Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds
0.4	2.3	--	--	0.1	0.4	--	--	--	--	6.7	9.2
50.2	50.4	--	--	4.9	5.2	0.5	0.1	1.5	1.6	69.8	70.0
10.2	7.3	--	--	11.2	12.0	--	--	0.5	0.1	33.5	29.0
98.3	109.9	1.4	--	8.6	6.2	--	--	7.6	10.5	219.3	225.7
0.1	0.2	--	--	0.1	0.1	0.1	2/	--	--	1.3	1.0
2.2	4.2	--	--	19.1	23.4	--	--	19.2	18.7	55.5	63.6
0.2	1.3	--	--	0.1	2/	--	--	--	--	0.3	1.3
4.9	5.1	--	--	0.6	0.7	--	--	0.9	0.6	13.7	15.6
2.3	2.9	--	--	--	--	--	--	0.2	--	13.9	14.0
33.1	20.4	174.9	165.6	2.1	2.2	5.2	1.8	29.2	25.6	308.0	279.5
0.3	0.4	--	--	0.8	0.8	--	--	0.3	0.6	2.0	2.1
202.2	204.4	176.3	165.6	47.6	51.0	5.8	1.9	59.4	57.7	724.0	711.0
--	--	--	--	0.1	0.3	--	--	--	--	0.1	2.7
0.5	1.3	--	--	--	--	--	--	2.2	0.9	10.7	12.7
--	--	--	--	--	--	--	--	--	--	--	2.1
0.5	1.3	--	--	0.1	0.3	--	--	2.2	0.9	10.8	17.5
--	0.1	0.8	0.3	2/	--	0.5	2/	--	0.1	1.5	0.5
1.6	1.9	2/	2/	2.2	2.1	1.1	1.0	--	0.2	10.9	12.1
1.1	0.1	--	--	2/	--	0.5	2/	--	--	1.6	0.1
0.5	0.5	--	--	0.1	0.1	0.7	0.4	--	--	1.3	1.1
1.3	1.3	2/	2/	2/	--	0.1	0.1	--	--	1.4	1.4
1.6	1.9	4.3	7.1	11.7	11.0	--	--	5.4	4.8	55.5	59.6
4.3	4.1	4.1	0.6	--	0.1	1.4	1.8	--	0.2	10.6	6.9
10.4	9.9	9.2	8.0	14.0	13.3	4.3	3.3	5.4	5.3	82.2	81.7
0.1	0.1	--	--	2/	2/	0.1	0.1	0.4	0.5	1.2	1.3
6.0	4.7	--	--	0.2	0.2	3.0	3.4	3.2	3.0	20.1	17.7
1.0	1.9	0.3	3.1	--	--	--	--	--	--	1.3	5.1
7.1	6.7	0.3	3.1	0.2	0.2	3.1	3.5	3.6	3.5	22.6	24.1
--	--	--	--	2/	--	--	--	--	--	--	0.1
0.4	2.2	0.1	0.6	2/	2/	2/	2/	--	--	1.0	3.3
1.6	1.9	--	--	2/	--	--	--	0.1	0.3	2.0	2.9
0.2	0.2	2/	0.1	2/	0.1	--	--	--	--	0.9	1.2
0.5	0.6	2/	0.1	2/	2/	2/	0.1	--	--	1.4	1.6
--	--	--	--	--	--	2/	--	--	--	--	--
2.6	4.8	0.3	--	--	0.1	0.2	0.1	--	--	7.2	12.5
5.3	9.7	0.4	0.8	--	0.2	0.2	0.2	0.1	0.3	12.5	21.6
2.4	1.8	--	--	0.2	0.1	--	--	0.4	0.7	38.3	42.8
0.7	0.4	--	--	0.3	0.2	--	--	0.5	0.4	1.6	1.2
--	--	--	--	2/	--	--	--	--	--	--	0.1
--	5/	--	--	2/	--	--	--	--	--	--	0.7
--	5/	--	--	2/	--	--	--	--	--	--	1.4
--	0.1	--	--	2/	5/	--	--	--	--	--	0.9
1.1	1.8	--	--	2/	2/	--	--	--	0.1	5.5	6.3
0.2	0.7	--	--	--	2/	--	--	--	--	2.0	2.0
2.1	2.5	0.3	--	--	0.2	--	--	--	0.1	7.7	5.6
6.5	7.3	0.3	--	0.5	0.5	--	--	0.9	1.3	55.1	61.0
0.1	0.3	0.4	0.3	--	0.2	--	--	--	0.1	1.6	3.0
0.7	1.0	--	0.1	1.0	0.7	0.2	0.2	3.5	1.7	27.2	12.1
232.8	240.6	186.9	177.9	63.4	66.4	13.6	9.1	75.1	70.8	936.6	932.0

1/ Preliminary. 2/ Less than 50,000 pounds. 3/ Includes shipments to U. S. Armed Forces overseas. 4/ All to U.S.S.R.
5/ Included in "other".

Table 3.--Dry whole milk: Exports of major supplying countries by destination 1959 and 1960 1/

Destination	Australia		Canada		Denmark		Netherlands		United States		Others 2/		Total	
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960
	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds
Western Europe:														
Belgium-Luxembourg	--	--	--	--	--	--	8.0	12.4	--	--	--	--	8.0	12.4
France	--	--	--	--	3/	0.4	1.5	2.0	--	--	--	--	1.5	2.4
Germany, West	--	3/	--	--	--	1.4	14.7	10.4	--	--	4.5	1.5	19.2	13.3
Greece	--	--	--	3/	--	--	2.0	2.8	--	--	--	--	2.0	2.8
Switzerland	--	--	--	--	--	0.2	1.2	0.5	--	--	2.2	1.8	3.4	2.5
United Kingdom	3.3	1.9	--	--	0.3	3.5	10.9	6.6	--	--	11.0	9.4	25.5	21.4
Others	0.1	0.9	--	--	--	--	0.6	0.2	0.9	--	0.8	0.3	2.4	1.4
Total	3.4	2.8	--	--	0.3	5.5	38.9	34.9	0.9	--	18.5	13.0	62.0	56.2
Eastern Europe:	--	--	--	--	--	--	--	--	--	--	--	--	--	--
North America:														
British West Indies	--	--	--	--	0.8	0.7	0.1	0.2	3/	--	1.2	2.0	2.1	2.9
Costa Rica	--	--	0.1	0.1	0.5	1.9	0.7	1.0	3/	--	--	0.1	1.3	3.1
Dominican Republic	--	--	--	--	0.4	--	0.3	3/	3/	--	--	--	0.7	--
El Selvador	--	--	--	--	1.0	1.1	2.7	3.3	3/	3/	--	--	3.7	4.4
Guatemala	--	--	--	0.6	1.5	1.6	0.5	0.7	0.1	3/	--	0.2	2.1	3.1
Honduras	--	--	--	0.1	0.7	0.9	0.5	0.6	3/	3/	--	--	1.2	1.6
Netherlands West Indies	--	--	--	--	--	--	1.6	1.9	0.1	3/	--	0.1	1.7	2.0
Others	0.1	0.1	--	1.3	3.7	4.1	1.9	2.0	0.8	0.8	0.2	0.2	6.7	8.5
Total	0.1	0.1	0.1	2.1	8.6	10.3	8.3	9.7	1.0	0.9	1.4	2.6	19.5	25.5
South America:														
Brazil	--	--	--	2.6	--	--	--	--	--	--	--	--	--	2.6
Peru	--	--	0.3	0.7	0.2	0.4	--	0.1	0.2	0.1	--	0.1	0.7	1.4
Venezuela	--	--	18.0	18.8	18.5	19.0	21.0	20.9	21.3	21.4	0.2	0.2	79.0	80.3
Others	--	--	--	0.2	0.6	0.9	1.8	2.4	0.1	0.1	--	--	2.5	3.6
Total	--	--	18.3	22.3	19.3	20.3	22.8	23.4	21.5	21.6	0.2	0.3	82.2	87.9
Asia:														
Aden	--	3/	--	--	0.2	0.4	0.4	0.4	--	--	--	--	0.6	0.8
Ceylon	2.8	3.6	--	--	2.4	2.3	--	0.5	3/	3/	--	1.3	5.2	7.7
Hong Kong	0.5	0.4	--	--	0.1	--	0.4	0.5	3/	3/	0.1	0.2	1.1	1.1
India	0.3	0.3	--	--	--	3/	--	0.1	0.1	3/	--	0.4	0.4	0.8
Indonesia	0.9	2.2	--	0.8	3.6	5.5	0.6	0.5	--	--	--	0.1	5.1	9.1
Lebanon	0.1	--	--	0.3	0.9	1.1	2.1	3.6	3/	--	--	--	3.1	5.0
Malaya & Singapore	4.0	3.9	--	0.1	4.3	5.1	1.3	1.5	3/	--	1.2	1.3	10.8	11.9
Philippines	--	3/	--	1.5	0.1	0.3	0.4	0.5	1.1	0.4	0.5	0.9	2.1	3.6
Saudi Arabia	--	--	--	--	0.2	0.5	1.4	3.2	3/	--	--	--	1.6	3.7
Taiwan	0.1	--	--	1.6	--	0.3	1.2	1.3	0.1	3/	--	--	1.4	3.2
Thailand	0.6	0.1	--	0.3	0.9	1.0	0.6	0.6	3/	3/	--	0.1	2.1	2.1
Others	3.8	1.5	--	0.5	3.9	3.2	4.6	4.3	0.2	0.6	--	0.2	12.5	10.3
Total	13.1	12.0	--	5.1	16.6	19.7	13.0	17.0	1.5	1.0	1.8	4.5	56.0	59.3
Africa:														
Republic of Congo	--	--	--	--	3.3	1.3	1.6	0.6	3/	3/	--	--	4.9	1.9
Morocco	--	--	--	--	0.3	0.2	0.3	0.6	--	--	--	0.1	0.6	0.9
Rhodesia & Nyasaland	0.6	0.5	--	--	--	--	0.3	0.2	--	--	0.5	0.3	1.4	1.0
Sudan	0.1	--	--	--	0.1	--	0.9	0.7	--	--	--	--	1.1	0.7
Others	0.2	1.8	--	--	2.2	2.5	3.3	3.9	0.9	0.1	--	0.5	6.6	8.8
Total	0.9	2.3	--	--	5.9	4.0	6.4	6.0	0.9	0.1	0.5	0.9	14.6	13.3
Oceania:	0.1	0.1	--	--	--	--	--	--	--	--	--	--	0.1	0.1
All others	0.1	1.4	--	2.2	2.2	1.3	0.5	0.5	--	--	3.0	2.5	5.8	7.9
Grand Total	17.7	18.7	18.4	31.7	52.9	61.1	89.9	91.5	25.9	23.5	25.4	23.8	230.2	250.3

1/ Preliminary. 2/ Exports from other countries which can be identified as dry whole milk. 3/ Less than 50,000 pounds.

Table 4.--Nonfat dry milk: Exports of major supplying countries, 1959 and 1960 1/

Destination	Australia		Canada		Netherlands		New Zealand		United Kingdom		United States 2/		Others		Total	
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960
	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds
Western Europe:																
Austria	--	--	--	0.4	--	--	--	--	--	--	--	--	--	--	--	0.4
Belgium-Luxembourg	0.8	--	21.9	3.2	0.9	0.6	--	--	--	0.1	14.6	0.3	--	--	38.2	4.2
Denmark	0.4	1.1	22.2	5.7	--	--	--	--	--	5.2	--	--	0.4	--	23.0	12.0
Germany, West	1.4	0.6	8.4	1.8	0.6	3/	4.4	--	0.1	0.1	3.5	1.0	4.4	3.1	22.8	6.6
Greece	--	--	0.1	0.6	--	0.4	--	--	--	--	0.1	--	--	--	0.2	1.0
Netherlands	1.7	2.2	16.1	2.7	--	--	1.3	--	2.2	0.1	16.1	2.1	4/14.1	4/23.0	51.5	30.1
United Kingdom	52.4	15.2	--	--	8.4	--	83.1	61.0	--	--	0.6	--	4.1	1.7	148.6	77.9
Others	0.2	0.3	--	4.7	1.5	0.6	--	--	0.4	0.4	7.3	20.6	--	0.1	9.4	26.7
Total	56.9	19.4	68.7	19.1	11.4	1.6	88.8	61.0	2.7	5.9	42.2	24.0	23.0	27.9	293.7	158.9
North America:																
British West Indies	0.5	0.4	0.5	0.4	--	--	1.9	0.9	0.2	0.5	0.6	--	--	--	3.7	2.2
Canada	--	--	--	--	--	0.5	--	--	--	--	0.1	0.1	--	--	0.1	0.6
Jamaica	0.2	0.2	--	1.4	--	--	5.7	7.3	0.1	--	--	--	--	--	6.1	8.9
Mexico	--	--	--	4.4	--	0.4	--	--	--	--	21.2	19.0	--	--	21.2	23.8
United States	--	--	1.0	0.5	--	--	0.6	0.4	--	--	--	--	--	--	1.6	0.9
Others	--	--	--	1.1	0.1	0.8	0.6	1.2	--	2.1	2.5	1.5	--	--	3.2	6.7
Total	0.7	0.6	1.5	7.8	0.1	1.7	8.8	9.8	0.3	2.6	24.5	20.6	--	--	35.7	43.1
South America:																
Chile	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Peru	--	0.1	0.1	0.8	--	3/	3.1	3.3	--	--	1.6	0.5	--	--	4.8	4.7
Venezuela	--	--	2.2	4.3	--	--	--	--	--	--	4.6	1.5	--	--	6.8	5.8
Others	--	--	--	4.2	--	0.1	--	--	--	--	0.7	1.8	--	--	0.7	6.1
Total	--	0.1	2.3	9.3	--	0.1	3.1	3.3	--	--	6.9	3.8	--	--	12.3	16.6
Asia:																
Ceylon	1.0	1.5	--	--	--	--	1.3	0.2	0.6	1.5	--	--	--	--	2.9	3.2
Hong Kong	--	0.2	0.2	--	--	--	0.1	0.4	0.2	0.1	0.2	0.7	--	--	0.7	1.4
India	0.3	7.9	0.2	3/	--	0.1	5.6	7.0	2.7	1.6	19.8	--	--	--	28.6	16.6
Israel	--	--	--	--	--	--	--	--	--	--	21.1	0.1	--	--	21.1	0.1
Japan	--	2.5	--	5.1	--	--	0.1	0.1	--	--	3.9	0.4	--	--	4.0	8.1
Malaya & Singapore	0.7	1.8	--	--	--	--	0.4	0.4	0.5	0.5	1.0	--	--	--	2.6	2.7
Philippines	--	1.2	--	--	--	--	0.1	10.2	--	--	26.8	20.5	--	--	26.9	31.9
Others	1.2	1.9	3.6	3.4	3.2	2.7	1.2	0.5	0.5	0.9	7.2	8.1	--	--	16.9	17.5
Total	3.2	17.0	4.0	8.5	3.2	2.8	8.8	18.8	4.5	4.6	80.0	29.8	--	--	103.7	81.5
Africa:																
Libya	--	--	--	--	--	3/	--	--	--	--	0.2	3/	--	--	0.2	--
Mauritus	--	1.1	--	--	--	--	0.9	0.3	0.2	0.2	--	--	--	--	1.1	1.6
Rhodesia & Nyasaland	0.6	1.5	--	3/	--	--	0.4	0.2	0.1	0.2	0.1	3/	--	--	1.2	1.9
Others	0.1	0.5	--	--	0.8	1.3	0.2	0.1	1.6	2.3	1.0	0.6	1.5	1.3	5.2	6.1
Total	0.7	3.1	--	--	0.8	1.3	1.5	0.6	1.9	2.7	1.3	0.6	1.5	1.3	7.7	9.6
All others	1.2	0.2	0.4	1.7	0.6	1.1	0.4	0.6	1.3	1.0	12.9	--	2.3	2.2	19.1	6.8
Grand Total	62.7	40.4	76.9	46.4	16.1	8.6	111.4	94.1	10.7	16.8	167.8	78.8	26.8	31.4	472.4	316.5

1/ Preliminary. 2/ Exclusive of donations under Public Law 480 and concessional sales for special uses. 3/ Less than 50,000 pounds. 4/ Mainly exports from Belgium.

Table 5.--Evaporated whole milk: Exports of major supplying countries by destination, 1959 and 1960 1/

Destination	Denmark		France		Netherlands		United Kingdom		United States		Others		Total	
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960
	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds
Western Europe:														
Belgium-Luxembourg	--	--	--	--	7.9	2.0	--	--	--	--	--	--	7.9	2.0
France	--	--	--	--	1.3	2.5	--	--	--	--	--	--	1.3	2.5
Germany, West	2.1	1.1	6.4	10.9	3.2	4.1	2.7	2.0	--	--	--	--	14.4	18.1
Greece	--	--	--	--	9.2	17.0	--	--	5.0	--	--	--	14.2	17.0
Italy	--	--	--	--	1.4	2.3	--	--	--	--	--	--	1.4	2.3
Malta	--	--	--	--	11.3	11.2	3.2	2.8	--	--	--	--	14.5	14.0
Switzerland	--	--	--	--	6.2	6.4	--	--	--	--	--	--	6.2	6.4
United Kingdom	0.8	0.4	--	--	16.7	15.8	--	--	--	--	--	--	17.5	16.2
Others	0.6	0.2	--	--	1.6	0.9	2.6	2.0	--	--	--	--	4.8	3.1
Total	3.5	1.7	6.4	10.9	58.8	62.2	8.5	6.8	5.0	--	--	--	82.2	81.6
Eastern Europe:	--	--	--	--	--	--	--	--	--	--	--	--	--	--
North America:														
Bermuda	--	--	--	--	2.7	2.5	0.2	0.1	--	--	--	--	2.9	2.6
British West Indies	--	--	--	--	3.1	4.1	0.5	0.5	0.2	--	3.6	3.2	7.4	7.8
Costa Rica	--	--	--	--	0.4	0.5	--	0.2	0.1	0.1	--	--	0.5	0.8
Cuba	--	--	--	--	13.3	17.7	--	--	7.7	4.8	--	--	21.0	22.5
Haiti	--	--	--	--	1.7	2.0	0.8	0.9	--	--	--	--	2.5	2.9
Mexico	--	--	--	--	--	--	--	--	18.6	18.9	--	--	18.6	18.9
Netherlands Antilles	--	--	--	--	5.5	6.3	--	--	--	--	--	--	5.5	6.3
Panama Canal Zone	--	--	--	--	0.1	0.1	--	--	--	--	--	--	0.1	0.1
Other	0.1	--	0.3	0.4	4.3	6.5	0.6	1.0	0.7	0.6	0.8	0.6	6.8	9.1
Total	0.1	--	0.3	0.4	31.1	39.7	2.1	2.7	27.3	24.4	4.4	3.8	65.3	71.0
South America:														
British Guiana	--	--	--	--	4.3	5.4	1.2	1.0	--	--	0.6	0.1	6.1	6.5
Peru	0.1	--	--	--	6.8	9.2	--	--	2/	2/	--	--	6.9	9.2
Venezuela	0.1	--	--	--	0.9	0.7	--	0.3	0.2	0.2	--	--	1.2	1.2
Other	0.2	0.1	--	--	2.3	1.7	--	0.6	--	--	--	--	2.5	2.4
Total	0.4	0.1	--	--	14.3	17.0	1.2	1.9	0.2	0.2	0.6	0.1	16.7	19.3
Asia:														
Aden	--	--	--	--	5.1	5.4	--	0.4	--	--	--	--	5.1	5.8
Bahrein	0.1	--	--	--	4.4	6.0	--	--	--	--	--	--	4.5	6.0
Burma	0.5	--	--	--	4.9	6.8	3.4	3.4	--	--	--	--	8.8	10.2
Hong Kong	--	--	--	--	16.2	14.5	0.2	0.2	2/	0.3	--	1.0	16.4	16.0
India	2.0	2.9	--	--	1.3	3/	2.8	4.8	--	2/	--	1.5	6.1	9.2
Indonesia	--	0.1	--	--	1.1	0.7	--	0.2	--	--	--	--	1.1	1.0
Kuweit	0.4	--	--	--	4.2	3.5	--	--	--	--	--	--	4.6	3.5
Malaya & Singapore	1.0	--	--	--	1.9	2.4	4.8	4.8	--	0.3	--	2.6	7.7	10.1
Philippines	0.2	0.1	--	--	6.7	10.2	--	--	49.4	74.0	--	--	56.3	84.3
Saudi Arabia	0.3	--	--	--	3.3	5.9	--	--	--	--	--	--	3.6	5.9
Taiwan	--	--	--	--	0.6	0.5	--	--	--	--	--	--	0.6	0.5
Thailand	2.1	1.5	--	--	10.6	13.0	--	--	--	--	--	0.2	12.7	14.7
Other	0.2	--	0.2	--	3.9	4.8	1.2	3.6	--	4/1.6	--	0.5	6.4	10.5
Total	6.8	4.6	0.2	--	64.2	73.7	12.4	17.4	49.4	76.2	--	5.8	133.9	177.7
Africa:														
Algeria	--	0.3	10.3	10.6	4.8	5.0	--	--	--	--	--	--	15.1	15.9
Republic of Congo	0.1	--	--	--	0.8	1.1	--	--	--	--	--	--	0.9	1.1
Republic of Ivory Coast	3/	--	3/	1.8	3/	3/	--	--	--	--	--	--	--	1.8
Republic of Madagascar	3/	--	3/	0.6	3/	0.1	--	--	--	--	--	--	--	0.7
Republic of Senegal	3/	--	3/	4.6	3/	3/	--	--	--	--	--	--	--	4.6
Ghana	0.3	0.1	--	--	12.5	14.9	1.2	0.7	--	--	--	--	14.0	15.7
Liberia	--	--	--	--	1.2	1.6	--	--	2/	2/	--	--	1.2	1.6
Libya	--	--	--	0.1	1.8	3.5	0.5	0.7	--	--	--	--	2.3	4.3
Morocco	--	--	--	0.1	3.7	5.2	--	--	--	--	--	--	3.7	5.3
Nigeria	0.1	--	--	--	13.7	18.4	0.4	0.3	--	--	--	--	14.2	18.7
Sierra Leone	--	--	--	--	2.0	2.4	--	0.3	--	--	--	--	2.0	2.7
Tanganyika	--	--	--	--	1.4	1.9	0.3	0.5	--	--	--	2/	1.7	2.4
Tunisia	--	--	0.5	0.3	0.6	0.6	--	--	--	--	--	--	1.1	0.9
Other	0.3	--	8.2	--	4.3	6.2	1.4	2.2	--	--	--	0.3	14.2	8.7
Total	0.8	0.4	19.0	18.1	46.8	60.9	3.8	4.7	--	--	--	0.3	70.4	84.4
All others	0.8	0.4	1.7	2.0	1.6	3.8	2.0	1.5	0.1	0.4	6.6	1.4	12.8	9.5
Grand Total	12.4	7.2	27.6	31.4	216.8	257.3	30.0	35.0	82.9	101.2	11.6	11.4	381.3	443.5

1/ Preliminary. 2/ Less than 50,000 pounds. 3/ Included with "other". 4/ 907,000 pounds to Indochina under Section 402, Public Law 665.

Table 6.--Condensed whole milk: Exports of major supplying countries, by destination 1959 and 1960 1/

Destination	Australia		Denmark		France		Netherlands		United Kingdom		United States		Others		Total	
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960
	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds
Western Europe:																
Belgium-Luxembourg	--	--	--	--	--	--	2.0	2.5	--	--	0.2	0.2	--	--	2.2	2.7
France	--	--	2.1	0.9	--	--	0.6	2.4	--	--	--	--	--	--	2.7	3.3
Greece	--	--	--	--	2.1	1.8	18.2	18.1	--	--	--	--	--	--	20.3	19.9
Italy	--	--	0.1	2/	--	--	0.7	1.3	--	--	--	--	--	--	0.8	1.3
Switzerland	--	--	0.7	0.1	--	--	4.0	4.5	--	--	--	--	--	--	4.7	4.6
United Kingdom	--	--	3.6	2.0	--	--	1.2	1.1	--	--	--	--	--	--	4.8	3.1
Other	--	--	0.5	0.3	--	--	2.7	3.3	0.6	0.2	--	--	--	--	3.8	3.8
Total	--	--	7.0	3.3	2.1	1.8	29.4	33.2	0.6	0.2	0.2	0.2	--	--	39.3	38.7
North America:																
British Honduras	--	--	--	--	--	--	1.7	2.1	--	--	--	--	--	--	1.7	2.1
British West Indies	--	--	--	--	--	--	18.3	17.1	0.9	1.3	--	--	--	--	19.2	18.4
Cuba	--	--	1.8	--	--	--	7.6	7.9	--	--	--	--	--	--	9.4	7.9
Dominican Republic	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
French West Indies	--	--	--	2/	2.9	2.6	0.9	1.1	--	--	--	--	--	--	3.8	3.7
Others	--	--	--	0.4	--	--	1.8	2.1	1.4	2.0	0.1	0.2	--	--	3.3	4.7
Total	--	--	1.8	0.4	2.9	2.6	30.3	30.3	2.3	3.3	0.1	0.2	--	--	37.4	36.8
South America:																
Bolivia	--	--	--	0.2	--	--	1.5	1.1	--	--	--	--	--	--	1.5	1.3
British Guiana	0.1	0.4	--	--	--	--	2.4	2.1	0.8	0.8	--	--	--	--	3.3	3.3
Peru	--	--	--	2/	--	--	0.1	0.4	--	--	--	--	--	--	0.1	0.4
Venezuela	--	--	0.2	0.3	--	--	4.6	4.5	--	--	0.1	2/	--	--	4.9	4.8
Others	--	0.5	0.3	0.2	--	--	1.7	2.4	--	--	--	--	--	--	2.0	3.1
Total	0.1	0.9	0.5	0.7	--	--	10.3	10.5	0.8	0.8	0.1	--	--	--	11.8	12.9
Asia:																
Burma	4.7	4.2	13.7	7.4	--	--	22.8	31.0	--	--	--	--	--	--	41.2	42.6
Ceylon	0.7	0.6	7.7	9.0	--	--	9.6	11.9	--	0.1	--	--	--	--	18.0	21.6
Hong Kong	--	--	--	--	--	--	11.1	13.3	2/	2/	--	--	--	--	11.1	13.3
India	--	2/	2/	0.2	--	--	0.2	0.8	2/	--	0.4	--	--	--	0.6	1.0
Indochina	--	--	0.7	0.5	4.9	3.0	1.3	0.6	--	--	4/37.1	4/40.7	--	--	44.0	44.8
Indonesia	--	--	--	2.7	--	--	1.4	1.1	--	0.3	--	--	--	--	1.4	4.1
Malaya & Singapore	30.2	19.3	15.6	13.3	--	--	60.4	65.7	33.7	46.0	0.1	0.3	0.8	3.5	140.8	148.1
Philippines	1.3	0.7	0.2	--	--	--	27.1	24.0	--	--	0.4	0.1	3.7	4.0	32.7	28.8
Taiwan	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Thailand	1.5	0.9	9.9	9.9	--	--	53.1	60.1	--	--	--	--	3.5	3.2	68.0	74.1
Others	--	5.7	0.8	1.5	1.7	--	11.9	12.9	3.3	3.1	--	0.2	--	0.1	17.7	23.5
Total	38.4	31.4	48.6	44.5	6.6	3.0	198.9	221.4	37.0	49.5	38.0	41.3	8.0	10.8	375.5	401.9
Africa:																
Algeria	--	--	1.5	1.7	16.1	20.4	4.1	4.5	--	--	--	--	--	--	21.7	26.6
Republic of Congo	--	--	--	--	--	--	2.1	1.1	--	--	--	--	0.4	0.1	2.5	1.2
Morocco	--	--	0.1	0.2	--	--	7.1	8.8	--	--	--	--	--	--	7.2	9.0
Republic of Ivory Coast	--	--	3/	3/	3/	1.3	3/	3/	--	--	--	--	--	--	--	1.3
Republic of Senagal	--	--	3/	3/	3/	2.0	3/	3/	--	--	--	--	--	0.1	--	2.1
Camerouns	--	--	3/	0.1	3/	--	3/	3/	--	--	--	--	--	--	--	0.1
Ghana	--	--	--	--	--	--	1.1	1.1	2/	2/	--	--	0.1	0.1	1.2	1.2
Kenya-Uganda	--	--	--	--	--	--	0.7	1.0	--	--	--	--	--	--	0.7	1.0
Republic of Madegascar	--	--	0.2	0.1	3.7	3.0	2.7	5.0	--	--	--	--	--	--	6.6	8.1
Mauritius	--	2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	2.1
Portugese-Africa	--	--	0.1	--	--	--	4.9	5.5	--	--	--	--	--	--	5.0	5.5
Reunion	--	--	--	--	1.5	--	0.5	0.6	--	--	--	--	--	--	2.0	0.6
Rhodesia & Nyasaland	1.4	0.7	--	--	--	--	1.1	1.2	1.7	1.8	--	--	--	--	4.2	3.7
Tanganyika	--	0.2	--	--	--	--	1.2	1.2	--	--	--	--	--	--	1.2	1.4
Tunisia	--	--	0.2	--	1.0	0.8	2.3	2.8	--	0.5	--	--	--	--	3.5	4.1
Republic of South Africa	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Others	--	--	0.8	0.7	6.5	--	10.3	11.7	--	0.3	--	--	0.5	0.3	18.1	13.0
Total	1.4	3.0	2.9	2.8	28.8	27.5	38.1	44.5	1.7	2.6	--	--	1.0	0.6	73.9	81.0
All others	6.1	5/1.4	0.4	0.3	3.2	7.9	2.0	5.7	1.4	0.3	0.1	0.2	3.9	0.4	17.1	16.2
Grand Total	46.0	36.7	61.2	52.0	43.6	42.8	309.0	345.6	43.8	56.7	38.5	41.9	12.9	11.8	555.0	587.5

1/ Preliminary. 2/ Less than 50,000 pounds. 3/ Included with "other". 4/ All under Section 402, Public Law 665. 5/ 261,000 pounds to U.S.S.R.

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August 1961

WORLD BUTTER AND CHEESE PRODUCTION UP IN 1960

Total butter production increased in 1960. Estimated at 10.5 billion pounds, output was up 4 percent over 1959, and was 15 percent above the 1951-55 average.

In Western Europe, the largest producing area (represented by 16 countries), production was up 8 percent. The biggest gain was in West Germany where output increased 62 million pounds to 948 million pounds, 7 percent over 1959. France's butter production in 1960, at 795 million pounds, was up 7 percent over the drought-reduced output of 1959.

Much of the record milk production in the Netherlands went into butter, manufacture of which rose 24 percent to 222 million pounds. Milk production was substantially higher in the United Kingdom. With only a slight increase in supplies used for fluid consumption, more milk was available for manufacturing, particularly for butter, output of which totaled 106 million pounds, compared with 45 million in 1959.

Production was up in Finland, Sweden, Belgium, Switzerland, and Norway. Austria and Ireland were the only countries in Western Europe to report smaller total butter production in 1960.

In Africa, total butter output was up 15 percent, and in Oceania, down 4 percent. In both North and South America, production increased 2 percent.

Creamery butter production in 32 countries at 8.4 billion pounds was 5 percent above 1959 and 32 percent above the 1951-55 average.

Output in Western Europe rose 10 percent over a year ago to 3 billion pounds. In West Germany, dairies used more milk for butter than in 1959 and production, at 895 million pounds, was up 8 percent. Production in France increased 9 percent to 650 million pounds. Finland's output - 197 million pounds - also gained 9 percent. In Sweden, the increase was 7 percent to 184 million pounds.

This Circular contains more detailed information than the summary of similar title published in the monthly supplement issue of Foreign Crops and Markets of June 29, 1961.

Belgium reported production of creamery butter at 114 million pounds in 1960, compared with 103 million a year earlier. Ireland's output rose 17 percent to 102 million pounds. Production was higher in the Netherlands, Switzerland, Austria, Norway, and the United Kingdom; it was lower in Denmark and Portugal.

Production in the U.S.S.R. was reported at 1.6 billion pounds in 1960, an increase of 2 percent over 1959. Other countries of Eastern Europe where output of creamery butter in 1960 was reportedly above the 1959 level were Rumania, Eastern Germany, Poland, and Czechoslovakia.

In both Australia and New Zealand, production declined. Output in Argentina was down slightly. In Brazil, Venezuela, and Uruguay, it was up from a year ago.

Production in Canada dropped about 2 percent to 323 million pounds. In the United States, it rose 4 percent to 1.4 billion pounds.

Total cheese production in 1960 in 31 countries was estimated at 6.8 billion pounds - 5 percent over 1959 and 29 percent over the 1951-55 average. In Western Europe, which accounted for approximately 60 percent of total cheese manufactured in 1960, output was up 5 percent. The largest increase was reported by Italy, where production rose 97 million pounds to 966 million pounds, a gain of 11 percent. Only France, the Netherlands, Denmark, and Portugal reported smaller output in 1960, compared with a year earlier.

Production in Australia increased 3 percent. In New Zealand, it was unchanged from 1959.

Output in both North and South America rose 6 percent above a year earlier.

Factory cheese production in 26 countries was up 5 percent to 4.5 billion pounds. Compared with the 1951-55 average, output was up 23 percent.

Production in Western Europe increased 5 percent. Output in West Germany at 360 million pounds was up 6 percent above a year ago. The United Kingdom reported an increase of approximately 25 percent to 228 million pounds. Other countries reporting significantly higher factory cheese production were Switzerland, Sweden, and Norway. Only Denmark and Portugal produced less cheese in 1960 than in 1959.

Australia's output was up 3 percent to 103 million pounds. New Zealand's output - 210 million pounds - was maintained at the 1959 level.

In South America, production increased about 8 percent. In North America, it was up 6 percent.

BUTTER: World production, average 1951-55, annual 1959 and 1960

Continent and Country	Average 1951-55		1959		1960 1/	
	Factory	Total 2/	Factory	Total 2/	Factory	Total 2/
	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds
North America:						
Canada	296	316	328	339	323	332
United States	1,327	1,526	1,334	1,440	1,388	1,479
South America:						
Argentina 3/	117	3/117	135	3/135	4/134	3/4/134
Brazil 4/	55	104	69	113	71	115
Chile	7	14	8	15	8	15
Colombia	--	5/18	--	26	--	26
Peru	--	4	--	6	--	6
Uruguay	8	8	4	9	6	13
Venezuela 3/	5	3/5	10	3/10	11	3/11
Europe:						
Austria	44	64	66	82	68	80
Belgium	88	186	103	190	114	195
Denmark	371	371	370	370	367	367
Finland	102	137	181	191	197	204
France	479	610	595	740	650	795
Germany, West	630	701	829	886	895	948
Greece 6/	--	17	--	24	--	24
Ireland	80	120	87	133	102	131
Italy	--	134	--	156	--	168
Luxembourg 3/	9	3/9	11	3/11	11	3/11
Netherlands	174	174	179	179	222	222
Norway	24	37	33	41	39	46
Portugal 3/	5	3/5	7	3/7	6	3/6
Sweden	210	215	172	174	184	186
Switzerland	52	52	73	73	77	77
United Kingdom	30	48	32	45	84	106
Bulgaria 3/	8	3/8	18	3/18	4/18	3/4/18
Czechoslovakia 3/	84	3/84	122	3/122	129	3/129
Germany, East 3/	7/317	3/7/317	355	3/355	394	3/394
Hungary 3/	21	3/21	36	3/36	36	3/36
Poland 3/	121	3/121	205	3/205	220	3/220
Rumania 3/	12	3/12	24	3/24	29	3/29
U.S.S.R.	830	8/1,096	1,592	1,863	1,625	1,870
Yugoslavia 6/	--	24	--	46	--	48
Africa:						
Kenya 3/	9	3/9	12	3/12	13	3/13
Republic of South Africa	69	77	83	91	4/97	4/105
Oceania:						
Australia	368	375	451	458	414	421
New Zealand	417	429	485	498	481	494
Total	9/6,369	10/9,100	9/8,009	10/10,100	9/8,413	10/10,500

1/ Preliminary. 2/Includes farm butter. 3/Creamery butter only. 4/Estimated. 5/ Less than a 5-year average. 6/Made from the milk of cows, sheep and goats. 7/For 1955 only. 8/For 1953 only. 9/Total factory butter production in above countries. 10/Estimated world total butter production, including countries not shown.

Foreign Agricultural Service. Compiled from reports of U. S. Agricultural Attaches and Foreign Service officers, official statistics of foreign governments, other foreign source materials, results of office research and related information.

CHEESE 1/: Production in specified countries, average 1951-55, annual 1959 and 1960

Continent and country	Average 1951-55		1959		1960 2/	
	Factory	Total	Factory	Total	Factory	Total
	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds
North America:						
Canada	86	87	119	120	121	122
United States	1,285	1,285	1,382	1,382	1,475	1,475
South America:						
Argentina 3/	236	3/236	245	3/245	4/262	3/4/262
Brazil 4/	67	67	91	148	102	159
Chile	21	31	20	30	21	31
Colombia	--	5/74	--	116	--	120
Uruguay	--	14	--	17	--	20
Europe:						
Austria	28	31	45	50	49	54
Belgium	19	22	48	51	50	53
Denmark	184	184	254	254	250	250
Finland	45	45	61	61	67	67
France 6/	--	647	--	884	--	874
Germany, West 3/	344	3/344	340	3/340	360	3/360
Greece 6/	--	132	--	176	--	179
Ireland 3/	5	3/5	9	3/9	10	3/10
Italy 6/	--	706	--	869	--	966
Netherlands	342	342	426	455	427	451
Norway 7/	65	67	86	87	88	89
Portugal 3/7/	4	3/4	6	3/6	5	3/5
Sweden	123	123	116	116	119	119
Switzerland 7/	115	124	138	138	151	151
United Kingdom	141	149	183	196	228	244
Bulgaria 3/8/	45	3/45	96	3/96	4/96	3/4/96
Czechoslovakia 3/	44	3/44	95	3/95	4/95	3/4/95
Germany, East 3/	9/53	3/9/53	78	3/78	82	3/82
Hungary 3/	10	3/10	24	3/24	27	3/27
Poland 3/	25	3/25	35	3/35	35	3/35
Rumania 3/	49	3/49	80	3/80	75	3/75
Africa:						
Republic of South Africa	24	25	30	31	4/32	4/33
Oceania:						
Australia	99	99	100	100	103	103
New Zealand	229	229	210	210	210	210
Total	3,688	5,298	4,317	6,499	4,540	6,817

1/ Whole milk cheese made from cows' milk, unless otherwise noted. 2/ Preliminary. 3/ Factory cheese only. 4/ Estimated. 5/ Less than a 5-year average. 6/ Made from the milk of cows, sheep and goats. 7/ Made from the milk of cows and goats. 8/ Made from the milk of cows and sheep. 9/ For 1955 only.

Foreign Agricultural Service. Compiled from reports of U. S. Agricultural Attaches and Foreign Service officers, official statistics of foreign governments, other foreign source materials, results of office research and related information.

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July 1961

MILK PRODUCTION AND UTILIZATION IN PRINCIPAL COUNTRIES IN 1960

Production

Milk production in 1960 in 18 principal producing countries increased 4 percent over 1959. Production in these countries, accounting for about 60 percent of estimated total world output, was 386.7 billion pounds, compared with 373.5 billion in 1959 and 343.9 billion, the average for the 5-year period 1951-55.

In Western Europe, production was up 6 percent, reflecting the general improvement in dairying conditions over the preceding year. Of the 14 countries reporting, only Denmark's output declined. The slight decline there, less than 1 percent (from 11,962 million pounds to 11,896 million pounds), is attributed to a small drop in the number of cows and some reduction in use of concentrates in feed rations. Reduced use of protein concentrates resulted mainly from the less favorable relationship between milk prices and cost of protein concentrates.

In France, the largest milk producing country in Western Europe, milk output of 50 billion pounds was a record high - up 12 percent over the drought-reduced level of 1959.

In West Germany, milk production is estimated at 42.4 billion pounds, compared with 40.6 billion pounds a year earlier. Cow numbers were up slightly and yields higher. Although stocks of roughage were low during the winter months of 1960, they were supplemented by heavier purchases of feed concentrates. Grazing during spring, summer and early fall was excellent.

In the Netherlands, milk production reached the record level of 15.1 billion pounds, up 6.8 percent over 1959. Among the factors contributing to this increased production were larger cow numbers, the better-than-average fodder supply and favorable weather during the summer which resulted in lush pastures.

Production in Sweden at 8.6 billion pounds was up 3 percent over a year ago. Since milk cow numbers were down considerably from 1959, this gain is attributed entirely to larger production per cow.

In Norway, a slight rise in milk cow numbers - the first in many years - together with higher yields, increased milk production of 5 percent to 3.9 billion pounds. Large crops of feed and more milk cows were the major factors contributing to Finland's outturn of 7.6 billion pounds, approximately 5 percent above 1959.

In the United Kingdom, favorable weather and higher yields from more cows brought 1960 milk production up 9 percent to 27.9 billion pounds. There were substantial increases in Belgium, Switzerland, and Ireland, where milk cow numbers were slightly higher.

In Australia, dryness in the important dairy areas and somewhat lower cow numbers reduced milk production somewhat below 1959. In New Zealand, milk cow numbers were up, but unfavorable weather reduced yields, and milk production declined slightly.

In Canada, milk production again rose, and at 18.4 billion pounds for the year, broke all records. In the United States, the 3-year decline was reversed in 1960 as production increased 1 percent to 122.9 billion pounds. Cow numbers were down, but production per cow set a new record.

Use

Slightly more milk was used for fluid consumption in 1960 than in 1959. Consumption in the 14 Western European countries reporting was up 2 percent; only Austria, Denmark, the Netherlands and Sweden consumed less fluid milk in 1960 than a year earlier. Fluid use increased in Australia and New Zealand. It also was up in Canada, but down in the United States.

Use of milk for butter was about 5 percent higher than in 1959. In Western Europe, about 9 percent more milk went into butter. Denmark was the only country in this area to report reduced use of milk for butter from the earlier year. The largest increases in use of milk for butter were in the United Kingdom, the Netherlands, Norway and France.

In Australia, reduced supplies of milk for butter reflected lower milk production. In New Zealand, the quantity of milk diverted to butter was also below 1959. In Canada, less milk was used for butter; in the United States, more.

Milk for cheese production was up 7 percent. In Western Europe, it was up 8 percent, all countries reporting increased utilization except Denmark, the Netherlands and Norway. Milk going into the manufacture of cheese in Oceania was considerably above 1959. In both Canada and the United States, supplies used for cheese were higher than a year earlier.

The quantity of milk used in the combined production of canned milk, dry whole milk, ice cream and miscellaneous dairy products increased about 3 percent in 1960 compared with 1959. More milk was used for these purposes in Western Europe in 1960, particularly in Finland, up 35 percent, Belgium, up 32 percent and Austria, up 24 percent. Australia and the United States were the only countries using less milk for these products in 1960 than a year earlier.

Milk fed to livestock was 4 percent higher. All countries reported little or no change in the quantities of milk fed except the United States, down 5 percent, and Ireland, down 1 percent.

COWS' MILK: Production and utilization in specified countries, 1960 (preliminary) and 1959

Country	Production			Utilization					
	Milk cows	Production per cow	Milk production	Fluid milk 1/	Butter	Cheese	Canned milk	Other uses 2/	Feed
	1,000 head	Pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds
1960:									
Canada	3,162	5,830	18,433	6,800	7,708	1,331	730	1,151	713
United States	17,549	7,004	122,920	58,600	31,004	13,428	5,492	11,868	2,528
Austria	1,127	5,575	6,283	2,513	1,825	434	13	373	1,125
Belgium	1,021	8,399	8,579	2,148	5,185	224	119	159	744
Denmark	1,436	8,284	11,896	1,850	7,308	1,583	3/	3/714	441
Finland	1,153	6,616	7,628	2,745	4,045	514	0	108	216
France	9,812	5,090	49,940	11,395	18,024	9,035	3/	3/953	10,533
Germany, West	5,670	7,482	42,450	12,353	21,019	2,502	4/2,187	4/269	4,120
Greece	373	2,228	831	465	115	84	0	0	167
Ireland	1,279	5,113	6,540	1,308	3,739	103	3/	3/453	937
Italy 5/	3,755	5,671	22,927	6,038	4,271	7,022	3/	3/46	5,550
Netherlands	1,593	9,480	15,098	2,140	4,877	4,297	2,028	1,116	640
Norway 6/	603	6,415	3,918	1,936	1,099	472	3/	3/91	320
Sweden	1,299	6,662	8,653	3,197	3,999	864	4	139	450
Switzerland 6/	940	7,231	6,861	2,448	1,332	1,774	3/	3/161	1,146
United Kingdom	4,018	6,952	27,933	18,855	2,715	2,612	977	1,023	1,751
Australia	3,225	4,363	14,070	3,152	8,978	1,035	3/	3/823	82
New Zealand 7/	2,000	5,885	11,772	1,116	8,313	1,840	3/	3/179	324
Total of above countries	60,015	--	386,732	139,059	135,556	49,154	11,550	19,626	31,787
1959:									
Canada	3,108	5,851	18,186	6,686	7,864	1,308	699	927	702
United States	17,901	6,815	121,989	58,800	30,136	12,593	5,656	12,146	2,658
Austria	1,132	5,408	6,122	2,515	1,821	406	11	300	1,069
Belgium	1,013	8,172	8,278	2,092	5,060	187	118	93	728
Denmark	1,433	8,348	11,962	1,869	7,365	1,612	3/	3/675	441
Finland	1,121	6,470	7,253	2,725	3,774	476	0	80	198
France	9,460	4,727	44,719	10,196	16,143	8,094	3/	3/850	9,436
Germany, West	5,580	7,286	40,657	12,321	19,808	2,317	4/1,905	4/276	4,030
Greece	367	2,210	811	452	112	84	0	0	163
Ireland	1,272	4,969	6,320	1,302	3,565	82	3/	3/422	949
Italy 5/8/	3,645	5,605	22,042	5,925	3,991	6,532	3/	3/44	5,550
Netherlands	1,548	9,129	14,132	2,435	3,932	4,349	1,787	989	640
Norway 6/	597	6,194	3,746	1,893	965	479	3/	3/91	318
Sweden	1,353	6,199	8,386	3,210	3,765	831	4	126	450
Switzerland 6/	916	7,141	6,605	2,434	1,281	1,691	3/	3/141	1,058
United Kingdom	3,849	6,658	25,628	18,535	1,285	2,101	915	1,041	1,751
Australia	3,283	4,493	14,752	3,060	9,731	1,013	3/	3/866	82
New Zealand 7/	1,931	6,149	11,874	1,082	8,655	1,671	3/	3/143	323
Total of above countries	59,509	--	373,462	137,532	129,253	45,826	11,095	19,210	30,546

COWS' MILK: Production and utilization in specified countries, 1951-55

Country	Production Milk cows	 Production per cow	 Milk production	Utilization Fluid milk 1/	 Butter	 Cheese	 Canned milk	 Other uses 2/	 Feed
	1,000 head	Pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds
Canada	3,114	5,247	16,339	5,927	7,501	924	677	709	601
United States	21,432	5,562	119,202	55,620	30,665	12,767	6,500	10,302	3,348
Austria	1,168	4,568	5,336	2,554	1,621	317	3/	3/11	833
Belgium	957	8,120	7,771	1,774	4,959	147	36	5	850
Denmark	1,507	7,645	11,521	1,625	7,727	1,239	3/	3/372	558
Finland	1,159	5,304	6,147	2,613	2,880	454	0	4	196
France	6,758	5,630	38,051	8,566	15,068	6,039	3/	3/568	7,810
Germany, West	5,814	6,196	36,023	12,416	16,497	2,018	957	278	3,857
Greece 9/	236	2,212	522	314	66	37	0	0	105
Ireland	1,185	4,436	5,257	1,082	2,955	63	3/	3/415	742
Italy 5/9/	3,832	4,869	18,660	5,433	3,281	5,820	23	40	4,063
Netherlands	1,504	8,414	12,654	3,350	3,909	3,138	1,039	461	757
Norway 6/	700	5,092	3,603	1,734	675	615	3/	3/143	436
Sweden	1,553	6,329	9,829	3,477	4,813	904	3/	3/131	504
Switzerland 6/	891	6,724	6,071	2,336	1,173	1,391	3/	3/161	1,010
United Kingdom	3,674	6,328	23,250	17,363	1,185	1,641	703	649	1,709
Australia	3,159	3,963	10/12,518	2,717	8,057	980	305	459	--
New Zealand 7/	1,953	5,728	11,187	974	7,665	2,068	3/	3/183	297
Total of above countries	60,596	--	343,941	129,875	120,697	40,562	10,240	14,891	27,676

1/ Includes milk used for cream. 2/ Includes milk used for ice cream, dried whole milk, minor products, waste and balance, unless otherwise indicated. 3/ Canned milk included with other uses. 4/ Dried milk included with canned milk. 5/ Production and utilization include sheep and goat milk. 6/ Production and utilization include goat milk. 7/ Years ending June 30. 8/ Revised, and may not be in line with earlier statistics. 9/ Less than a 5-year average. 10/ Excludes milk fed to calves.

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U.S. DAIRY EXPORTS DOWN SUBSTANTIALLY IN 1960

Summary

U. S. dairy product exports in 1960 were down substantially from the relatively low level of 1959.

On a whole milk equivalent (butterfat) basis, exports totaled 0.8 billion pounds compared with 1.2 billion in 1959. This sharp reduction was due mainly to a substantial decline in butter exports. Exports of dairy products were equal to about 0.7 percent of total whole milk production in 1960.

Of the major dairy items, only condensed and evaporated milk showed increased exports in 1960. Shipments of condensed milk increased the second successive year while evaporated milk exports recovered substantially from the low level of 1959. Butter and cheese shipments declined again in 1960, as supplies available for export under government programs remained negligible and U. S. prices continued noncompetitive with world prices. Dry whole milk exports were down 1.6 million pounds in 1960 from 1959, the third successive decline. Exports of nonfat dry milk declined 167 million pounds to 507 million, the first decrease since 1952. The drop resulted chiefly from a reduction in donation shipments by voluntary agencies under Section 416 of Title III, Public Law 480.

Total value of dairy product exports in 1960 is estimated at $119 million, down 11 percent from 1959. The value of nonfat dry milk exports was about 46 percent of the total. Evaporated milk, the second most important export product, accounted for 13 percent of the value of total shipments.

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Indications for 1961

Although exports on a whole milk equivalent (butterfat) basis may drop again in 1961, total value of exports should recover slightly as shipments of nonfat dry milk again approach the 700 million pound level. Butter and cheese exports will continue small but will probably be somewhat larger than in 1960. Although condensed milk shipments will increase again in 1961, total canned milk exports will probably decline as evaporated milk exports resume a general downward trend. Dry whole milk exports will decline in 1961 for the fourth successive year.

Exports

Total exports of U. S. dairy products on a whole milk equivalent (butterfat) basis were 0.8 billion pounds in 1960 compared with 1.2 billion in 1959. The substantial drop was largely due to a 74 percent reduction in butter exports (including the butter equivalent of anhydrous milk fat). Of the 6.3 million pounds exported in 1960, about 80 percent was the butter equivalent of anhydrous milk fat. Cheese exports were 9 million pounds in 1960, compared with 14 million in the previous year. Processed cheese accounted for 64 percent of the total as U. S. natural cheese remained noncompetitive with world cheese prices. Neither butter nor cheese was sold under Title I, Public Law 480, (foreign currency sales) in 1960.

Exports of nonfat dry milk totaled 507 million pounds in 1960 compared with 674 million in 1959, principally because of smaller donation shipments under Title III of Public Law 480. Donation shipments by voluntary agencies were 247 million pounds in 1960 compared with 385 million in 1959 and an average of 346 million annually in the years 1955-1958. About 40 percent of the donations went to Europe and 37 percent to Asia in 1960.

Nonfat dry milk shipments under Title I declined 58 percent to 22 million pounds as Poland, Yugoslavia, Pakistan, and Colombia were the only countries to make such purchases. Dollar sales were at a record 43 million pounds in 1960, with Mexico taking 19 million and the Philippines 16 million.

Exports of dry whole milk declined for the third successive year in 1960 to 23.5 million pounds. Venezuela was again the principal market, taking 21.4 million pounds.

Total canned milk exports increased 18 percent to 143 million pounds, as evaporated milk recovered substantially from the low level of 1959 and condensed milk showed a slight increase. The rise in evaporated milk shipments was mainly due to the 51 percent increase in takings by the Philippines. Philippine imports were 74 million pounds and accounted for 73 percent of total shipments. Exports of evaporated milk to Mexico were 18.9 million pounds, another record. Mainly due to a 10 percent increase in exports to Indochina under Section 402, Public Law 665, condensed milk exports were up 4 million pounds to 42 million. Shipments to Indochina under Section 402 were 41 million pounds.

Exports of infant and dietetic foods (milk base) increased 14 percent to 16.3 million pounds in 1960. Shipments to Latin America accounted for 63 percent of the total with Venezuela, the major market, taking 6 million pounds. Shipments of malted milk compounds and mixes declined 8 percent to 2.9 million pounds in 1960. Ceylon imported about 38 percent of the total.

Imports

In 1960, the value of U. S. imports of dairy products, including casein was $50 million, up only slightly from 1959. Cheese and casein again were the major import commodities, accounting for 99 percent of the total value. Since most dairy products are under import quotas, there is usually little variation in year-to-year quantity or value figures.

Cheese imports in 1960 totaled 63.1 million pounds, down slightly from 1959. Imports of cheese are mainly of the specialty varieties, Pecorino, Provoloni, and Provolette from Italy; Swiss from Switzerland; Edam and Gouda from the Netherlands; and Blue Mold from Denmark. Imports from Italy accounted for 34 percent of total cheese imports, Switzerland 17 percent, and Denmark 13 percent.

Casein imports were 92.2 million pounds in 1960 compared with 94.5 million in 1959. Argentina, the major supplier, increased its share of the market to 52 percent by supplying 48.3 million pounds. Although takings from New Zealand declined, that country remained the second largest source by supplying 18.1 million pounds. Australia and Poland were other major suppliers, shipping 8.7 and 7.8 million pounds in 1960, respectively.

Growth Through Agricultural Progress

Table 1.--DAIRY PRODUCTS: U. S. exports of specified products, by type of shipment, 1958-1960

Commodity	Total exports	Public Law 480			Public Law 665 Section 402	Other government programs 2/	UNICEF donations	Exports exclusive of government programs
		Title I sales for foreign currency	Title II donations	Title III donations 1/				
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
Butter 3/:								
1958	32,234	27,236	--	--	149	788	--	4,061
1959	24,027	36	--	--	224	16,663	--	7,104
1960	6,267	--	--	--	--	294	--	5,973
Cheese:								
1958	157,949	11,069	2,962	133,157	27	2,589	--	8,145
1959	14,455	--	331	--	42	8,693	--	5,389
1960	9,021	--	--	--	--	1,113	--	7,908
Canned milk:								
1958	163,621	6,648	--	--	47,519	--	--	109,454
1959	121,289	4,957	--	--	39,393	--	--	76,939
1960	143,108	--	--	--	41,620	--	--	101,488
Dry whole milk:								
1958	28,673	472	--	--	170	--	--	28,031
1959	25,111	38	--	--	207	--	--	24,866
1960	23,513	--	--	--	39	--	--	23,474
Nonfat dry milk:								
1958	671,240	61,944	29,323	437,183	1,849	49,763	56,103	35,075
1959	673,593	52,818	11,564	384,599	22,030	86,695	75,887	40,000
1960	506,888	22,162	24,746	247,164	2,794	114,173	52,934	42,915

1/ Food for relief and charity, mainly donations.
2/ Partially estimated, includes government-to-government sales at nominal prices for restricted uses.
3/ Includes butter equivalent of anhydrous milk fat.

Table 2.--BUTTER AND CHEESE: U. S. exports by country of destination, annual 1958-1960

Country of destination	Butter 1/						Cheese					
	Total exports, including shipments under government programs			Exports exclusive of government programs 2/			Total exports, including shipments under government programs			Exports exclusive of government programs 2/		
	1958	1959	1960 3/	1958	1959	1960 3/	1958	1959	1960 3/	1958	1959	1960 3/
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
North America:												
Canada 4/	9	45	--	9	45	--	883	1,071	1,017	883	1,071	1,017
Mexico	89	164	57	89	164	57	1,067	714	403	803	714	403
Guatemala	--	--	--	--	--	--	181	135	101	109	50	101
El Salvador	12	34	--	12	34	--	54	45	58	36	8	58
British Honduras	--	--	--	--	--	--	--	97	122	--	16	122
Honduras	17	16	7	17	16	7	632	6	10	--	--	10
Nicaragua	100	--	--	100	--	--	13	6	5	13	--	5
Costa Rica	--	--	--	--	--	--	409	2	4	--	2	4
Panama	5	14	13	5	14	13	1,483	830	796	328	256	796
Panama Canal Zone	141	38	--	110	--	--	223	88	121	200	52	121
Bahamas	16	34	59	16	34	59	290	261	238	81	47	238
Bermuda	--	61	56	--	--	56	178	201	178	46	73	175
Cuba	607	1,581	123	61	155	123	726	505	10	690	412	10
Haiti	7	13	23	7	8	--	324	169	78	95	16	78
Jamaica	--	--	--	--	--	--	133	45	44	23	27	44
Leeward and Windward Islands	--	6	--	--	--	--	--	43	30	--	12	30
Netherlands Antilles	1	22	1	1	22	1	83	88	144	56	31	144
South America:												
Colombia	255	--	--	--	--	--	5,366	2	--	--	2	--
Ecuador	--	--	--	--	--	--	448	5	1	--	5	1
Peru	294	482	3	201	51	3	1,920	89	52	55	63	52
Chile	--	86	--	--	47	--	18,082	4	--	--	4	--
Venezuela	--	224	53	--	224	53	2,725	3,042	3,377	2,470	2,085	3,377
Brazil	3,631	--	--	--	--	--	--	--	--	--	--	--
Europe:												
United Kingdom	--	10,937	--	--	--	--	1	5,231	1,781	1	197	680
Spain	--	--	--	--	--	--	28,877	--	--	--	--	--
Portugal	--	218	--	--	--	--	4,070	--	--	1	--	--
France	--	--	--	--	--	--	373	--	6	13	--	3
Belgium	--	--	3	--	--	3	838	521	94	147	--	94
Germany, West	--	4,071	570	--	4,071	570	12,973	--	--	--	--	--
Italy	--	3,122	--	--	--	--	5,854	22	--	25	--	--
Poland	2	--	--	--	--	--	2,331	--	--	--	--	--
Austria	--	--	--	--	--	--	2,677	--	--	--	--	--
Trieste	--	--	--	--	--	--	378	--	--	--	--	--
Yugoslavia	--	--	--	--	--	--	17,197	--	--	--	--	--
Greece	--	--	--	--	--	--	15,562	575	3	--	127	3
Asia:												
Turkey	1,297	5	2	--	--	2	4,976	1	--	--	1	--
Israel	16,682	--	--	--	--	--	8,054	1	4	2	1	4
Jordan	--	--	--	--	--	--	60	3	1	--	3	1
Iran	2	--	15	2	--	15	10	4	15	10	2	15
Pakistan	5,112	9	6	--	9	6	16	16	10	16	6	10
India	--	2	--	--	2	--	1,340	4	3	--	4	3
Thailand	176	36	33	--	--	33	5	--	1	5	--	1
Indochina	168	224	5	--	--	5	894	42	17	--	--	17
Hong Kong	245	204	109	122	16	109	9	5	13	9	5	13
Taiwan	90	61	141	90	61	141	2	--	--	2	--	--
Korea	387	808	2,470	387	808	2,470	4,424	--	--	5	--	--
Japan	2,683	1,188	2,128	2,683	1,188	2,128	665	46	33	60	46	33
Philippines	34	115	334	34	--	77	985	28	63	225	28	63
Africa:												
Morocco	93	135	31	62	135	31	950	--	--	--	--	--
Liberia	11	6	11	--	--	11	2	9	6	2	--	6
Tunisia	--	--	--	--	--	--	4,604	331	--	1,642	--	--
Libya	--	--	--	--	--	--	1,782	5	10	--	5	10
Egypt	--	--	--	--	--	--	978	18	10	5	18	10
All others	68	66	14	42	--	--	1,836	145	162	87	--	156
Total	32,234	24,027	6,267	4,061	7,104	5,973	157,949	14,455	9,021	8,145	5,389	7,908

1/ Includes butter equivalent of anhydrous milk fat. 2/ Partially estimated. 3/ Preliminary. 4/ Includes Newfoundland and Labrador.

Table 3.--DRIED MILK: U. S. exports by country of destination, annual 1958-1960

Country of destination	Nonfat dry milk						Dried whole milk					
	Total exports, including shipments under government programs			Exports exclusive of government programs 1/			Total exports, including shipments under government programs			Exports exclusive of government programs 1/		
	1958	1959	1960 2/	1958	1959	1960 2/	1958	1959	1960 2/	1958	1959	1960 2/
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
North America:												
Canada 3/	58	81	66	58	81	66	305	335	384	305	335	384
Mexico	19,502	22,403	19,666	18,581	21,172	19,015	85	274	169	85	274	169
Guatemala	1,881	1,940	1,451	481	3	--	124	85	37	124	85	37
El Salvador	1,435	1,888	636	1,018	250	376	57	25	13	57	25	13
British Honduras	760	603	162	131	--	--	2	--	1	2	--	1
Honduras	937	807	985	183	178	--	29	10	14	29	10	14
Nicaragua	8	9	41	8	4	1	55	6	13	55	6	13
Costa Rica	376	65	26	61	--	26	10	7	--	10	7	--
Panama	2,130	1,545	1,402	357	25	34	9	71	48	9	71	48
Panama Canal Zone	142	187	31	81	107	--	37	1	59	37	1	59
Bahamas	253	308	245	133	248	94	38	47	12	38	47	12
Bermuda	228	379	420	158	209	333	3	--	7	3	--	7
Cuba	112	2,386	225	112	108	25	73	45	13	73	45	13
Dominican Republic	344	50	12	--	47	12	11	10	2	11	10	2
Haiti	827	4,479	2,039	30	14	--	5	5	1	5	5	1
Jamaica	1,029	1,077	2,169	13	13	--	--	4	1	--	4	1
Leeward & Windward Is.	1,371	1,561	985	298	10	--	5	--	3	5	--	3
Netherlands Antilles	237	152	115	202	104	115	78	57	18	78	57	18
South America:												
Colombia	19,320	10,152	10,895	1,373	--	--	--	--	--	--	--	--
Ecuador	1,796	1,753	1,257	61	13	--	29	28	23	29	28	23
Peru	9,660	6,513	3,537	1,143	149	--	82	203	134	82	203	134
Chile	30,441	25,450	11,471	19	10	--	273	26	51	273	26	51
Venezuela	1,675	4,779	1,539	649	177	1,445	24,032	21,290	21,384	24,032	21,290	21,384
Brazil	24,067	12,074	21,473	--	--	--	--	--	1	--	--	1
Bolivia	524	776	468	--	10	--	2	5	1	2	5	1
Paraguay	682	660	849	--	--	--	--	--	--	--	--	--
Argentina	300	468	842	300	--	397	--	--	--	--	--	--
British Guiana	373	641	371	184	144	47	120	4	--	120	4	--
Surinam	5	613	306	5	149	--	2	--	--	2	--	--
Trinidad & Tobago	110	687	314	--	--	--	--	--	2	--	--	2
Europe:												
United Kingdom	--	558	--	--	--	--	--	--	--	--	--	--
Spain	56,423	43,634	34,165	--	851	--	--	--	--	--	--	--
Portugal	5,348	11,686	3,827	--	--	--	--	--	4	--	--	4
Netherlands	--	16,083	2,148	--	--	--	--	--	24	--	--	24
Belgium	26	14,594	302	26	634	302	14	36	--	14	36	--
France	454	1,197	191	--	913	91	2	5	4	2	5	4
Denmark	--	2,221	2	--	--	2	--	--	--	--	--	--
Germany, West	28,637	22,229	5,357	1,158	1,924	--	3	2	1	3	2	1
Italy	27,422	25,097	22,681	--	--	--	--	--	--	--	--	--
Austria	2,078	1,927	1,448	--	--	--	--	--	--	--	--	--
Poland	16,613	16,220	20,404	--	--	--	--	--	--	--	--	--
Trieste	1,413	881	160	--	--	--	--	--	--	--	--	--
Yugoslavia	83,372	34,901	37,519	19	--	--	--	--	--	--	--	--
Greece	10,936	7,202	4,138	2	91	5	2	--	--	2	--	--
Sweden	--	1,316	4	--	--	4	--	--	8	--	--	8

Asia:													
Turkey	5,306	5,561	3,453	--	500	--	229	11	17	215	11	17
Syria	--	1,966	952	--	242	--	1	--	86	1	--	86
Lebanon	705	4,597	2,148	705	128	--	12	7	1	12	7	1
Israel	24,242	24,031	868	--	--	65	703	3	--	231	3	--
Jordan	445	316	2,337	--	2	--	--	--	--	--	--	--
Iraq	669	1,250	1,758	--	--	--	45	7	4	45	7	4
Arabian States	187	221	207	139	27	89	26	37	25	26	37	25
Iran	2,035	2,456	860	122	192	--	77	31	28	77	31	28
Afghanistan	432	421	1,144	--	--	--	11	4	--	11	4	--
Pakistan	7,537	3,051	11,513	265	--	--	35	1	24	35	1	24
India	76,121	91,487	37,154	--	--	--	26	91	30	26	91	30
Ceylon	5,345	9,892	7,928	--	--	--	2	4	9	2	4	9
Burma	1,254	2,250	344	--	--	--	2	--	--	2	--	--
Malaya	1,344	2,225	999	869	1,004	--	--	15	1	--	15	1
Thailand	820	682	229	--	108	58	12	8	8	12	8	8
Indochina	5,954	8,050	2,811	200	--	--	220	207	192	64	--	153
Hong Kong	5,927	5,376	5,029	135	181	650	2	4	17	2	4	17
Taiwan	15,341	22,397	7,622	--	117	--	171	89	43	171	51	43
Korea	33,661	36,583	13,428	780	4/3,060	4/3,400	447	56	34	447	56	34
Japan	58,555	46,200	114,060	--	426	--	21	7	18	21	7	18
Indonesia	2,654	7,528	3,231	--	--	--	--	--	3	--	--	3
Philippines	48,510	48,356	36,451	3,293	1,097	15,594	1,017	1,084	421	1,017	1,084	421
Africa:												
Morocco	7,696	4,510	868	250	495	--	--	--	1	--	--	1
French West Africa	--	514	815	--	--	--	--	--	--	--	--	--
British West Africa	280	204	1,003	--	--	--	--	--	--	--	--	--
Liberia	42	1,200	731	6	4	53	23	15	10	23	15	10
Algeria	14	2,662	1,403	--	--	--	--	--	--	--	--	--
Ghana	162	392	1,285	--	2	--	--	--	--	--	--	--
Nigeria	112	305	518	--	2	--	3	6	4	3	6	4
Tunisia	2,878	1,027	2,110	1,104	--	--	--	--	--	--	--	--
Libya	313	1,774	613	--	233	34	4	17	15	4	17	15
Rep. of Congo	110	270	2,848	2	9	--	15	11	6	15	11	6
Angola	--	--	16	--	--	16	32	23	35	32	23	35
Rhodesia	34	66	44	34	51	44	1	12	2	1	12	2
Rep. of South Africa	24	100	417	24	--	363	13	5	--	13	5	--
Egypt	3,599	21,375	17,232	4	97	--	1	707	--	1	707	--
Ethiopia	282	1,320	568	--	--	--	--	--	1	--	--	1
British East Africa	985	1,636	508	299	321	114	--	--	1	--	--	1
Somaliland	--	--	78	--	--	42	6	4	--	6	4	--
Mozambique	--	--	57	--	--	1	29	44	20	29	44	20
All others	4,360	7,110	4,902	--	4,064	2	--	20	25	--	20	25
Grand Total	671,240	673,593	506,888	35,075	40,000	42,915	28,673	25,111	23,513	28,031	24,866	23,474

1/ Partially estimated. 2/ Preliminary, grand total and totals for several countries adjusted by FAS on basis of reported export liftings by programs. 3/ Preliminary. 4/ Apparently includes milk imported commercially for use on U. S. Service Installations.

Table 4.--CANNED MILK: U. S. exports by country of destination, annual 1958-1960

Country of destination	Evaporated milk						Condensed milk					
	Total exports, including shipments under government programs			Exports exclusive of government programs 1/			Total exports, including shipments under government programs			Exports exclusive of government programs 1/		
	1958	1959	1960 2/	1958	1959	1960 2/	1958	1959	1960 2/	1958	1959	1960 2/
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
North America:												
Canada 3/	39	73	38	39	69	38	3	30	140	3	30	140
Mexico	17,514	18,614	18,870	17,514	18,607	18,870	49	4	25	49	4	25
Nicaragua	377	415	338	377	415	338	--	--	--	--	--	--
Costa Rica	158	97	81	158	97	81	--	4	--	--	4	--
Honduras	14	61	47	14	61	47	--	--	--	--	--	--
Panama	29	--	13	29	--	13	--	--	--	--	--	--
Panama Canal Zone	595	--	--	595	--	--	--	--	--	--	--	--
Bahamas	144	249	44	144	249	44	--	--	--	--	--	--
Cuba	8,312	7,684	4,788	8,158	7,675	4,788	48	41	--	48	41	--
Jamaica	159	117	123	149	117	123	--	--	2	--	--	2
South America:												
Peru	175	4	10	175	4	10	--	--	--	--	--	--
Venezuela	397	236	235	397	236	235	52	53	9	52	53	9
Europe:												
Belgium	--	--	--	--	--	--	298	206	170	298	206	170
Greece	4/6,648	4/4,960	--	--	--	--	--	--	--	--	--	--
Asia:												
Arabian States	166	106	79	166	106	79	22	26	247	22	26	247
Afghanistan	21	5	--	21	5	--	--	--	--	--	--	--
Iran	84	--	95	84	--	95	--	--	3	--	--	3
Pakistan	120	30	44	120	21	44	8	4	1	8	4	1
India	11	--	19	11	--	19	--	443	--	--	443	--
Thailand	17	17	--	17	17	--	228	--	--	228	--	--
Malaya	199	--	336	199	--	336	--	105	257	--	105	257
Hong Kong	--	11	283	--	11	283	--	--	8	--	--	8
Indochina	227	267	5/907	227	267	--	5/33,933	5/36,897	5/40,713	--	--	--
Taiwan	26	--	--	26	--	--	202	--	--	202	--	--
Philippines	92,810	49,398	74,007	79,395	46,984	74,007	109	404	53	109	404	53
Korea	46	112	--	46	95	--	--	--	--	--	--	--
Japan	26	57	98	26	38	98	--	--	--	--	--	--
U. S. Trust Territories	215	347	321	215	347	321	6	--	1	6	--	1
Africa:												
Liberia	25	12	6	25	12	6	--	--	6	--	--	6
All others	86	109	429	82	95	429	23	91	262	23	91	262
Total	128,640	82,981	101,211	108,406	75,528	100,304	34,981	38,308	41,897	1,048	1,411	1,184

1/ Partially estimated. 2/ Preliminary. 3/ Includes Newfoundland and Labrador. 4/ All under Title I, Public Law 480. 5/ All under Section 402, Public Law 665.

TABLE 5.--DAIRY PRODUCTS (Malted milk compounds, infants and dietetic foods): U. S. exports by country of destination, annual 1958-60

Country of destination	Malted milk compounds and mixes			Infant and dietetic foods (milk base)		
	1958	1959	1960 1/	1958	1959	1960 1/
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
North America:						
Canada 2/	40	57	54	178	94	444
Mexico	22	59	89	569	363	320
Guatemala	56	48	35	301	312	353
El Salvador	38	21	11	235	241	201
Honduras	42	24	21	214	280	221
Nicaragua	23	3	12	159	179	193
Costa Rica	--	10	5	207	238	272
Panama, Republic of	72	76	98	395	527	733
Panama Canal Zone	2	3	3	32	12	2
Cuba	330	262	127	196	331	157
Dominican Republic	72	36	27	131	250	151
Haiti	24	12	9	75	65	81
Netherlands Antilles	118	115	103	98	111	93
South America:						
Colombia	3	4	--	191	177	344
Ecuador	12	5	20	303	277	404
Peru	2	--	2	174	247	201
Bolivia	6	8	4	52	60	65
Chile	--	9	1	5	2	--
Venezuela	88	51	62	3,987	5,535	5,992
Uruguay	5	5	--	21	41	55
Argentina	--	--	--	54	--	9
Europe:						
United Kingdom	--	--	--	43	1	12
Belgium	45	66	43	98	45	80
Germany, West	13	14	6	73	138	13
Asia:						
Lebanon	--	3	3	65	39	86
Arabian States	16	7	2	134	25	131
Iraq	--	--	5	134	123	233
Iran	--	4	4	125	143	277
India	--	--	7	15	53	60
Burma	--	153	99	--	6	--
Ceylon	451	647	1,120	39	76	167
British Malaya	--	15	32	4	121	82
Thailand	11	--	10	132	251	258
Indochina	244	119	152	73	146	146
Hong Kong	4	23	49	66	244	126
Taiwan	--	--	1	479	288	270
Indonesia	--	--	--	355	175	420
Philippines, Republic of	732	1,135	440	2,108	2,067	2,021
Africa:						
Egypt	--	--	--	112	22	298
Union of South Africa	--	--	3	383	631	696
Mozambique	4	23	29	--	6	--
All others	152	158	237	266	327	645
Total	2,627	3,175	2,925	12,281	14,269	16,312

1/ Preliminary. 2/ Includes Newfoundland and Labrador.

Table 6.--DAIRY PRODUCTS: U. S. exports by category, quantity, and value, 1958-1960 1/

Item	Quantity			Value 2/		
	1958	1959	1960 3/	1958	1959	1960 3/
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 dollars	1,000 dollars	1,000 dollars
Milk and cream, fresh	3,477	4,323	5,858	653	806	933
Butter 4/	32,234	24,027	6,267	13,611	11,780	4,981
Cheese, all types	157,949	5/14,455	9,021	37,115	5/5,522	4,141
Milk, processed:						
Condensed, sweetened	34,981	38,308	41,897	7,857	8,557	9,824
Evaporated	128,640	82,981	101,211	20,550	12,544	16,180
Dried whole milk	28,673	25,111	23,513	14,734	13,398	14,031
Nonfat dry milk	671,240	673,593	506,888	91,659	67,982	54,744
Milk products, processed:						
Infants' and dietetics', chiefly milk base	12,281	14,269	16,312	8,362	9,784	11,882
Malted milk compounds and mixtures	2,627	3,175	2,925	1,320	1,632	1,384
Ice cream powder mixes	643	611	618	281	260	243
Casein (inedible) 6/	177	128	141	70	45	42
Dairy products, n.e.c.	3,287	6,362	3,840	654	801	659
Total Value	--	--	--	196,866	133,111	119,044
	Million pounds	Million pounds	Million pounds			
Milk equivalent of total exports	2,902	1,180	808			

1/ Includes shipments for relief and charity under Public Law 480.
2/ Based on United States Department of Commerce data.
3/ Preliminary.
4/ Includes butter equivalent of anhydrous milk fat.
5/ Shipments of cheese under Title III (donations for relief and charity) of Public Law 480 were discontinued.
6/ Not included with dairy products in Census classification.

Table 7.--DAIRY PRODUCTS: U. S. imports by category, quantity, and value, 1958-1960 1/

Item	Quantity			Value		
	1958	1959	1960 1/	1958	1959	1960 1/
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 dollars	1,000 dollars	1,000 dollars
Condensed, sweetened	2	7	--	negl.	1	--
Condensed, n.e.s.	1	3	8	negl.	negl.	1
Whole milk, dried	6	21	6	1	12	1
Skimmed milk, dried	1,946	2,054	1,340	144	196	111
Buttermilk, dried	316	734	357	28	56	37
Malted milk compounds, dried	5	7	5	2	3	2
Butter	788	744	1,044	373	378	498
Cheese, all	55,737	63,857	63,147	27,322	30,848	31,297
Swiss	9,341	11,495	9,935	5,248	6,029	5,429
Gruyere	3,669	4,423	4,751	2,225	2,495	2,513
Romano	983	1,679	1,519	387	517	486
Pecorino 2/	14,735	13,992	13,928	7,738	7,940	8,369
Reggiano	1,063	1,638	1,035	494	684	527
Parmesano	452	411	395	253	244	247
Provoloni and provolette	3,605	4,062	4,025	1,891	2,209	2,248
Roquefort	2,036	2,275	2,094	1,544	1,880	1,726
Cheddar	3,022	2,154	3,212	823	615	956
Blue mold	3,993	4,184	4,186	1,724	1,817	1,918
Edam and gouda	4,345	5,159	5,994	1,733	2,072	2,492
Bryndza	34	53	65	9	15	24
Sbrinz	16	27	10	7	8	4
All other cheese including processed, not listed above	8,443	12,305	11,998	3,246	4,323	4,358
Casein, dried	91,265	94,459	92,155	17,569	17,984	17,947
Lactose, dried	--	--	--	89	94	67
Total value	--	--	--	45,528	49,572	49,961

1/ Preliminary. 2/ Pecorino cheese, sheep's milk cheese, including small amounts not suitable for grating.

TABLE 8.--Butter and cheese: Imports by country of origin, annual 1958-60

Country of origin	Butter			All Cheese		
	1958	1959	1960	1958	1959	1960 1/
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
North America:						
Canada 2/	--	--	--	496	444	573
South America:						
Argentina	20	--	2	2,121	3,285	2,454
Brazil	--	--	--	10	--	5
Europe:						
Denmark	180	214	177	6,984	7,837	8,361
Netherlands	21	4	7	4,039	5,006	5,090
United Kingdom	1	1	4	132	76	149
Portugal	--	--	--	--	309	50
Sweden	97	--	299	152	204	109
Switzerland	--	--	--	10,317	11,587	10,703
Yugoslavia	--	--	--	312	343	328
Austria	--	--	--	467	619	772
Belgium	--	--	--	26	67	58
Finland	--	--	--	1,142	2,314	1,783
France	--	--	--	2,292	2,622	2,555
Germany, West	--	--	--	293	437	487
Greece	--	--	--	207	155	256
Ireland	--	--	--	31	52	46
Italy	--	--	--	22,484	22,576	21,265
Norway	--	--	--	753	638	714
Bulgaria	--	--	--	20	186	600
Czechoslovakia	--	--	--	41	60	56
Oceania:						
Australia	12	17	77	--	7	--
New Zealand	457	508	478	3,327	4,825	6,496
Others	--	--	--	122	208	237
Total	788	744	1,044	55,737	63,857	63,147

1/ Preliminary. 2/ Includes Newfoundland and Labrador.

TABLE 9 .--Cheese: Imports by variety and country of origin, annual 1956-60 [1]

Variety and country of origin	1956	1957	1958	1959	1960
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
Cheddar:					
Canada 2/	399	458	456	395	512
Denmark	1	--	5	1	16
Sweden	4	4	1	--	7
Australia	--	11	--	7	--
New Zealand	2,373	1,770	2,531	1,733	2,676
Others	5	--	29	18	1
Total	2,782	2,243	3,022	2,154	3,212
Swiss 3/:					
Austria	276	443	455	619	752
Belgium	137	116	25	17	47
Denmark	446	598	725	901	1,407
Finland	670	797	1,139	2,227	1,743
France	1	--	1	5	6
Germany, West	107	126	46	157	67
Italy	53	109	78	6	26
Netherlands	49	53	356	522	68
Norway	--	22	--	1	5
Sweden	--	--	9	--	31
Switzerland	10,247	10,501	10,176	11,463	10,439
Others	17	--	--	--	95
Total	12,003	12,765	13,010	15,918	14,686
Romano:					
Italy	6	--	22	56	50
Argentina	1,785	1,141	950	1,623	1,468
Others	--	--	11	--	1
Total	1,791	1,141	983	1,679	1,519
Pecorino:					
Bulgaria	--	--	--	--	270
Greece	100	128	128	51	136
Italy	13,341	11,832	14,031	13,652	13,325
Yugoslavia	104	104	133	167	82
Argentina	145	175	171	101	61
New Zealand	--	--	256	--	--
Others	52	42	16	21	54
Total	13,742	12,281	14,735	13,992	13,928

See footnotes at end of table

TABLE 9 .--Cheese: Imports by variety and country of origin, annual 1956-60 continued

Variety and country of origin	1956	1957	1958	1959	1960 1/
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
Reggiano:					
Italy	407	496	420	508	604
Argentina	1,223	934	643	1,107	431
Others	--	--	--	23	--
Total	1,630	1,430	1,063	1,638	1,035
Parmesan:					
Italy	269	343	414	392	395
Argentina	--	--	38	19	--
Total	269	343	452	411	395
Provolone and Provolette:					
Italy	3,867	3,672	3,599	4,026	4,011
Argentina	--	9	6	36	11
Others	133	--	--	--	3
Total	4,000	3,681	3,605	4,062	4,025
Roquefort:					
France	1,855	2,097	2,036	2,264	2,091
Others	6	--	--	11	3
Total	1,861	2,097	2,036	2,275	2,094
Blue mold:					
Denmark	3,797	3,455	3,785	3,917	3,935
France	8	4	4	18	12
Italy	103	100	131	114	144
Norway	31	10	9	53	25
Sweden	8	14	43	21	11
Switzerland	30	--	--	--	7
United Kingdom	13	11	14	13	25
Others	4	5	7	48	27
Total	3,994	3,596	3,993	4,184	4,186
Edam and Gouda:					
Denmark	395	246	355	430	626
Finland	11	11	3	--	--
Netherlands	4,380	3,973	3,490	4,320	4,869
Norway	187	140	240	160	214
Portugal	3	3	4	5	4
Sweden	8	14	16	35	31
Switzerland	14	6	34	1	4
Argentina	151	180	190	176	225
Others	47	--	13	32	21
Total	5,196	4,580	4,345	5,159	5,994

TABLE 9.--Cheese: Imports by variety and country of origin, annual 1956-60 continued

Variety and country of origin	1956	1957	1958	1959	1960 1/
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
Other cheeses:					
Canada 2/	161	25	40	49	61
Belgium and Luxembourg	--	2	--	50	6
Bulgaria	4	12	20	186	330
Denmark	1,110	1,373	2,114	2,588	2,369
Finland	11	4	--	87	40
France	92	139	252	335	428
Germany, West	206	229	248	280	413
Greece	403	217	79	104	120
Italy	3,032	3,449	3,787	3,822	2,703
Netherlands	128	176	193	164	152
Norway	539	459	504	424	360
Portugal	29	36	37	304	46
Sweden	54	74	83	148	29
Switzerland	133	148	107	123	252
United Kingdom	6	15	89	63	112
Yugoslavia	171	156	178	176	246
Argentina	317	136	122	223	248
New Zealand	--	7	540	3,092	3,820
Others	62	60	100	167	338
Total	6,458	6,717	8,493	12,385	12,073

1/ Preliminary. 2/ Includes Newfoundland and Labrador. 3/ Includes Ementhaler with eye-formation and Gruyere process cheese.

UNITED STATES DEPARTMENT OF AGRICULTURE
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TABLE 10.--Casein: Imports by country of origin, annual 1956-60

Country of origin	1956	1957	1958	1959	1960[1]
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
Canada [2]	2,951	1,074	648	840	1,922
Azores	210	314	404	308	462
Denmark	173	10	222	55	11
France	448	1,128	1,209	388	1,280
Germany, West	109	--	778	1,263	1,934
Netherlands	460	1,024	2,244	2,703	2,523
Norway	428	1,163	573	669	413
Poland	--	--	7,490	8,976	7,781
Portugal	--	221	139	176	--
Sweden	--	2	43	--	--
Argentina	51,712	55,673	49,021	44,926	48,345
Brazil	109	192	241	1,371	198
Uruguay	492	923	989	771	308
Australia	6,503	4,152	13,567	10,820	8,698
New Zealand	6,998	8,298	13,560	21,152	18,100
Others	80	430	137	41	180
Total	70,673	74,604	91,265	94,459	92,155

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[1] Preliminary.
[2] Includes Newfoundland and Labrador.

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FOREIGN AGRICULTURE CIRCULAR

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U. S. EXPORTS OF DAIRY BREEDING CATTLE

CALENDAR YEAR 1959 AND 1960

U. S. exports of dairy breeding cattle in 1960 totaled 12,945 head, compared with 7,714 in 1959.

Cuba showed the greatest increase in purchases, taking 4,279 head, compared with less than 100 in 1959. Shipments were also larger to other principal markets, Mexico, Canada, and Peru. Exports to Venezuela decreased from 1,227 head in 1959 to 910 in 1960. Purchases by the Dominican Republic were down to 57 head (from 548 in 1959), mainly as a result of the 1960 break in diplomatic relations. Following the lifting of import restrictions, Colombia increased its purchases.

Heifer Project donations influenced the shipment of breeding stocks to Greece, which received a total of 113 head of cattle, almost four times the number received in 1959. Exports to West Germany were down to 76 head, less than half the number it received last year.

The bulk of exports continued to consist of female stock -- 95 percent of all shipments in 1960, compared with 91 percent in 1959.

There was an increase in exports of mature animals (2 years of age and over), representing 81 percent of all shipments, compared with 77 percent in 1959.

U. S. dairy cattle inspected for export, by breeds, in 1960 and 1959 are shown in the following tabulation: (For a more detailed accounting, see Table 1.)

Breed	1959 Head	1960 Head
Holstein	4,975	8,624
Brown Swiss	1,437	2,157
Guernsey	567	1,289
Jersey	666	821
Ayrshire	69	54
Total	7,714	12,945

Except in the case of Ayrshire, certificates of inspection for export increased for all breeds. The Ayrshire breed declined 22 percent from the previous year.

Exports of Holsteins showed a notable increase in 1960. Cuba's purchases were up sharply, some 4,200 head over the previous year. While Canada and Peru continued to be good markets for this breed, Mexico was the leading importer; it took 4,476 head. Principal states of origin were Wisconsin, Minnesota, Indiana, Colorado, Florida, California, and Texas. Shipments to Cuba in 1961 are expected to drop, due to the embargo announced by the U. S. Department of Commerce in Current Export Bulletin No. 846, March 10, 1961.

Exports of Brown Swiss increased to 2,157 head in 1960, compared with 1,437 in 1959. Venezuela was the leading importer, followed by Cuba and Peru. Shipments to Peru were larger mainly because of sales made following the visit of a purchase team from that country to the United States. This project was carried out under a market development program. Principal states of origin for Brown Swiss cattle were Wisconsin, Ohio, Texas, Indiana, Illinois and Minnesota.

The number of Guernseys inspected for export totaled 1,289 head in 1960, more than double the 567 shipped in 1959. Most of the increase was in shipments to Canada. These exports accounted for 72 percent of total shipments of this breed. Most of these cattle went to Canada's milk market areas, where milk is sold on the basis of butterfat content. Principal states of origin were New York, Pennsylvania, California and Maryland.

There was a small increase in exports of Jerseys. Cuba was the leading importer; it took 58 percent, and was followed by Canada, which took 27 percent.

Exports by destination

U. S. dairy breeding cattle inspected for export in 1960, by country of destination, state of origin, breed, age, and sex, together with summary data for 1959, are shown in Table 2. (For detailed breakdown in 1958 and 1959 see Table 2, Foreign Agriculture Circular FD 4-60, May 6, 1960.)

Exports are summarized by leading country of destination, calendar years 1959 and 1960, in Table 3. Mexico, as in previous years, continued as the leading importer, taking a total of 4,726 head, a gain of 810 head over 1959. Cuba moved up to second place, taking 4,279 head in 1960 compared with only 32 in 1959. Canada continued in third place, with a gain of 532 head in 1960. Venezuela ranked fourth, taking 910 head, a decline of 317 from the previous year. Other countries which showed noteworthy increases were Peru -- 595 head in 1960, only 45 head in 1959; Greece -- 113 head, compared with 29 head; Colombia -- 104 head from 7 head in 1959; and British Guiana -- 70 head, against none in 1959.

Shipments to West Germany declined from sixth place in 1959 to ninth in 1960, a drop of 97 head. The Dominican Republic reported a drop of 491 head, and moved from fourth place in 1959 to eleventh place in 1960, and El Salvador with 92 head in 1960, dropped from fifth place in 1959 to seventh.

Table 3.--Dairy Cattle for breeding: U. S. inspections for export and principal destinations, calendar years 1960 and 1959

Destination	1959	1960
	Head	Head
Mexico	3,916	4,726
Cuba	32	4,279
Canada	1,136	1,668
Venezuela	1,227	910
Peru	45	595
Greece	29	113
El Salvador	198	106
Colombia	7	104
Germany, West	173	76
British Guiana	--	70
Dominican Republic	548	57
British Honduras	--	47
Ecuador	43	30
Costa Rica	61	29
Guatemala	42	27
Argentina	11	25
Bahamas	16	20
Bermuda	--	12
Other	230	51
Total	7,714	12,945

Table 1.--Breeding cattle, dairy. Inspections for export from the United Statea by breed, country of destination, age, and sex, annual 1960 with comparison 1/

Breed and country of deatination	Male				Female				Total	
	Under 1 year	1 yr. and under 2 yrs.	2 years and over	All ages	Under 1 year	1 yr. and under 2 yrs.	2 yeara and over	All agea	1960	1959
	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head
Ayrshire:										
Canada	--	--	--	--	--	--	3	3	3	39
Cuba	--	--	--	--	--	--	20	20	20	--
Ecuador	1	1	--	2	13	--	15	28	30	1
Venezuela	--	--	--	--	--	--	1	1	1	--
Total	1	1	--	2	13	--	39	52	54	2/69
Brown Swiss:										
Bahamaa	--	--	--	--	--	2	18	20	20	--
Canada	15	1	2	18	40	39	114	193	211	103
Colombia	2	1	1	4	21	17	12	50	54	--
Costa Rica	5	3	--	8	1	11	3	15	23	7
Cuba	--	--	1	1	--	71	456	527	528	--
Dominican Republic	--	--	--	--	1	11	4	16	16	271
El Salvador	41	7	2	50	11	23	13	47	97	6
Greece	4	--	--	4	31	1	--	32	36	--
Guatemala	--	2	--	2	--	22	--	22	24	5
Iran	--	1	--	1	2	--	--	2	3	4
Italy	--	--	2	2	--	--	--	--	2	5
Mexico	11	22	11	44	15	11	32	58	102	81
Nicaragua	1	1	--	2	--	--	--	--	2	3
Peru	12	33	19	64	38	76	235	349	413	29
Venezuela	15	87	43	145	4	34	443	481	626	910
Total	106	158	81	345	164	318	1,330	1,812	2,157	2/1,437
Guernsey:										
Bermuda	--	--	--	--	--	--	12	12	12	--
Br. Honduras	--	--	--	--	--	1	1	2	2	--
Canada	12	9	6	27	64	160	683	907	934	447
Costa Rica	4	1	--	5	2	1	--	3	8	--
Cuba	--	--	--	--	--	23	132	155	155	--
Germany, West	--	--	--	--	--	19	21	40	40	6
Mexico	7	3	--	10	3	2	89	94	104	28
Venezuela	3	2	--	5	2	13	--	15	20	--
Other countries	2	6	1	9	--	5	--	5	14	--
Total	28	21	7	56	71	224	938	1,233	1,289	2/567
Holatein:										
Argentina	4	5	1	10	2	3	10	15	25	11
Br. Guiana	--	--	--	--	70	--	--	70	70	--
Br. Honduras	8	--	--	8	--	34	3	37	45	--
Canada	21	10	8	39	62	44	155	261	300	282
Colombia	--	4	--	4	30	12	4	46	50	7
Cuba	--	--	--	--	1	425	2,672	3,098	3,098	31
Dominican Republic	--	--	--	--	--	--	35	35	35	265
Germany, Weat	--	--	--	--	--	9	14	23	23	74
Greece	1	--	--	1	35	1	--	36	37	--
Guatemala	1	2	--	3	--	--	--	--	3	32
Japan	2	4	--	6	--	2	--	2	8	4
Mexico	31	64	27	122	126	143	4,085	4,354	4,476	3,674
Peru	3	14	3	20	2	37	115	154	174	16
Venezuela	2	5	1	8	--	--	244	244	252	315
Other countriea	2	13	4	19	--	1	8	9	28	--
Total	75	121	44	240	328	711	7,345	8,384	8,624	2/4,975
Jersey:										
Canada	2	6	7	15	6	20	179	205	220	264
Cuba	--	--	--	--	--	71	407	478	478	1
Dominican Republic	--	--	--	--	--	--	4	4	4	6
Germany, West	--	--	--	--	--	7	6	13	13	21
Greece	9	--	--	9	30	1	--	31	40	29
Mexico	3	1	2	6	8	2	28	38	44	130
Venezuela	--	2	--	2	--	5	3	8	10	2
Other countries	--	4	--	4	--	2	6	8	12	--
Total	14	13	9	36	44	108	633	785	821	666
Grand Total	224	314	141	679	620	1,361	10,285	12,266	12,945	2/7,714

1/ Based on 11 months data.
2/ Figures above this total are for specified countries only and do not necessarily add to this figure which represents total exports. For more detailed breakdown for 1959 aee Dairy Cattle Circular FD 4-60 and table 2 of this circular.

Foreign Agricultural Service. Compiled from official health certificates and test charts, Agricultural Research Service.

Table 2.--Breeding cattle, dairy: Inspections for export from the United States, by country of destination, State of origin, breed, age, and sex, annual 1960 with comparison 1/

Country of destination, State of origin, and breed	Male				Female				Total	
	Under 1 year	1 yr. and under 2 yrs.	2 years and over	All ages	Under 1 year	1 yr. and under 2 yrs.	2 years and over	All ages	1960	1959
	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head
Argentina:										
Wisconsin										
Holstein	1	4	--	5	2	2	8	12	17	--
Other States										
Holstein	3	1	1	5	--	1	2	3	8	--
Total	4	5	1	10	2	3	10	15	25	2/11
Bahamas:										
Florida										
Brown Swiss	--	--	--	--	--	2	18	20	20	--
Total	--	--	--	--	--	2	18	20	20	2/16
Bermuda:										
New York										
Guernsey	--	--	--	--	--	--	12	12	12	--
Total	--	--	--	--	--	--	12	12	12	--
British Guiana										
Maryland										
Holstein	--	--	--	--	70	--	--	70	70	--
Total	--	--	--	--	70	--	--	70	70	--
British Honduras:										
Maryland										
Guernsey	--	--	--	--	--	1	1	2	2	--
Holstein	6	--	--	6	--	28	--	28	34	--
Pennsylvania										
Holstein	2	--	--	2	--	6	3	9	11	--
Total	8	--	--	8	--	35	4	39	47	--
Canada:										
California										
Guernsey	--	--	--	--	1	--	1	2	2	--
Holstein	--	--	--	--	7	--	3	10	10	--
Jersey	--	--	1	1	--	--	1	1	2	--
Connecticut										
Jersey	1	2	2	5	--	3	19	22	27	25
Indiana										
Guernsey	--	1	3	4	--	--	4	4	8	33
Jersey	--	--	--	--	--	1	27	28	28	--
Kansas										
Holstein	--	--	--	--	--	--	6	6	6	--
Maine										
Guernsey	--	--	--	--	--	--	1	1	1	--
Holstein	--	--	--	--	2	--	--	2	2	--
Maryland										
Guernsey	--	--	--	--	--	15	85	100	100	6
Holstein	--	1	--	1	--	--	--	--	1	2
Jersey	--	--	--	--	--	--	19	19	19	100
Massachusetts										
Ayrshire	--	--	--	--	--	--	2	2	2	1
Brown Swiss	--	--	--	--	--	1	1	2	2	7
Guernsey	2	--	--	2	6	21	2	29	31	1
Michigan										
Guernsey	--	--	--	--	--	7	26	33	33	--
Holstsin	5	1	--	6	14	2	8	24	30	9
Minnesota										
Brown Swiss	--	--	--	--	1	--	--	1	1	12
Holstein	1	2	1	4	8	16	47	71	75	25
Montana										
Brown Swiss	1	--	1	2	--	4	5	9	11	4
Holstein	1	--	--	1	--	--	1	1	2	4
New Hampshire										
Holatein	3	--	--	3	1	--	--	1	4	--
New Jsrsey										
Brown Swiss	3	--	--	3	--	--	3	3	6	22
Guernsey	--	1	--	1	--	21	64	85	86	5
Holstein	1	--	--	1	--	--	3	3	4	10
Jersey	--	1	--	1	--	--	3	3	4	13
New York										
Brown Swiss	--	--	--	--	2	1	14	17	17	--
Guernsey	2	3	3	8	33	59	240	332	340	209
Holatein	4	2	--	6	--	6	7	13	19	32
Jersey	--	1	1	2	--	3	11	14	16	37
North Carolina										
Holstein	--	--	1	1	3	--	--	3	4	--
North Dakota										
Brown Swiss	3	1	--	4	13	8	22	43	47	18
Holstein	--	--	--	--	--	1	7	8	8	26
Ohio										
Guernsey	--	1	--	1	11	--	37	48	49	9
Holstsin	1	--	2	3	3	--	4	7	10	3
Jersey	1	2	3	6	4	3	5	12	18	10
Oklahoma										
Brown Swiss	1	--	--	1	--	2	4	6	7	--
Pennsylvanis										
Ayrshire	--	--	--	--	--	--	1	1	1	2
Brown Swiss	4	--	1	5	1	--	17	18	23	--
Guernsey	2	2	--	4	8	18	131	157	161	12
Holstein	--	--	--	--	4	11	2	17	17	5
Jsrsey	--	--	--	--	--	--	32	32	32	1
Rhode Island										
Holstein	--	--	1	1	1	--	--	1	2	--
Jersey	--	--	--	--	--	3	13	16	16	--
Virginia										
Ouernsey	--	--	--	--	--	1	37	38	38	--
Washington										
Brown Swiss	1	--	--	1	4	11	22	37	38	--
Guernsey	6	1	--	7	5	18	55	78	85	59
Holstein	1	--	3	4	9	3	52	64	68	27
Jersey	--	--	--	--	2	7	48	57	57	15

Table 2.--Breeding cattle, dairy: Inspections for export from the United States, by country of destination, State of origin, breed, age, and sex, annual 1960 with comparison 1/
Continued

Country of destination, State of origin, and breed	Male				Female				Total	
	Under 1 year	1 yr. and under 2 yrs.	2 years and over	All ages	Under 1 year	1 yr. and under 2 yrs.	2 years and over	All ages	1960	1959
	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head
El Salvador:										
Florida										
Brown Swiss	--	3	--	3	--	12	1	13	16	--
Illinois										
Brown Swiss	18	2	1	21	11	3	3	17	38	--
Massachusetts										
Guernsey	--	1	--	1	--	--	--	--	1	--
Ohio										
Brown Swiss	--	--	1	1	--	--	--	--	1	--
Texas										
Brown Swiss	23	1	--	24	--	8	9	17	41	--
Wisconsin										
Brown Swiss	--	1	--	1	--	--	--	--	1	6
Holstein	--	1	--	1	--	--	7	7	8	73
Total	41	9	2	52	11	23	20	54	106	2/198
Germany, West										
Connecticut										
Jersey	--	--	--	--	--	5	6	11	11	--
Illinois										
Holstein	--	--	--	--	--	9	11	20	20	--
Indiana										
Holstein	--	--	--	--	--	--	2	2	2	--
Massachusetts										
Guernsey	--	--	--	--	--	19	21	40	40	27
Holstein	--	--	--	--	--	--	1	1	1	--
Jersey	--	--	--	--	--	1	--	1	1	8
Ohio										
Jersey	--	--	--	--	--	1	--	1	1	6
Total	--	--	--	--	--	35	41	76	76	2/173
Greece:										
Maine										
Jersey	6	--	--	6	7	--	--	7	13	--
Massachusetts										
Brown Swiss	--	--	--	--	--	1	--	1	1	--
Jersey	1	--	--	1	23	1	--	24	25	--
New Jersey										
Jersey	1	--	--	1	--	--	--	--	1	--
New York										
Brown Swiss	4	--	--	4	31	--	--	31	35	--
Holstein	1	--	--	1	35	1	--	36	37	--
Pennsylvania										
Jersey	1	--	--	1	--	--	--	--	1	1
Total	14	--	--	14	96	3	--	99	113	2/29
Guatemala:										
Florida										
Holstein	--	2	--	2	--	--	--	--	2	19
Wisconsin										
Brown Swiss	--	2	--	2	--	22	--	22	24	--
Holstein	1	--	--	1	--	--	--	--	1	12
Total	1	4	--	5	--	22	--	22	27	2/42
Mexico										
Arizona										
Guernsey	1	1	--	2	--	--	--	--	2	--
Holstein	--	1	--	1	--	--	47	47	48	21
California										
Brown Swiss	4	--	--	4	1	--	--	1	5	17
Guernsey	6	2	--	8	3	1	89	93	101	3
Holatein	9	24	15	48	85	6	472	563	611	779
Jersey	--	1	--	1	--	--	4	4	5	1
Colorado										
Holstein	5	2	2	9	4	17	800	821	830	282
Illinois										
Brown Swiss	--	--	--	--	--	1	--	1	1	--
Holstein	--	--	--	--	--	12	114	126	126	182
Iowa										
Holstein	--	--	--	--	--	--	84	84	84	--
Minnesota										
Brown Swiss	--	6	5	11	--	--	--	--	11	11
Holstein	--	1	1	2	--	6	1,089	1,095	1,097	1,170
Montana										
Holstein	--	15	--	15	--	--	--	--	15	--
Jersey	1	--	--	1	--	--	2	2	3	--
New Mexico										
Brown Swias	--	2	--	2	--	--	--	--	2	--
Holstein	4	2	1	7	--	--	50	50	57	38
Ohio										
Brown Swiss	1	1	1	3	--	2	22	24	27	--
Holstein	--	--	--	--	--	--	1	1	1	--
Jersey	--	--	2	2	--	--	10	10	12	--
Texas										
Brown Swisa	4	13	5	22	14	8	8	30	52	48
Guernsey	--	--	--	--	--	1	--	1	1	12
Holstein	4	7	5	16	29	77	427	533	549	205
Jersey	2	--	--	2	8	2	12	22	24	128
Virginia										
Holatein	--	--	1	1	--	--	21	21	22	--
Wisconsin										
Brown Swias	2	--	--	2	--	--	2	2	4	--
Holstein	7	5	2	14	8	25	979	1,012	1,026	796
Other States										
Holatein	2	7	--	9	--	--	1	1	10	3
Total	52	90	40	182	152	158	4,234	4,544	4,726	2/3,916

Table 2.--Breeding cattle, dairy: Inspections for export from the United States, by country of destination, State of origin, breed, age, and sex, annual 1960 with comparison 1/
Continued

Country of destination, State of origin, and breed	Male				Female				Total	
	Under 1 year	1 yr. and under 2 yrs.	2 years and over	All ages	Under 1 year	1 yr. and under 2 yrs.	2 years and over	All ages	1960	1959
	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head
Peru:										
Connecticut										
Brown Swiss	--	1	1	2	--	2	--	2	4	--
Colorado										
Brown Swiss	--	--	--	--	2	11	3	16	16	--
Illinois										
Brown Swiss	2	12	1	15	9	18	1	28	43	--
Holstein	2	1	--	3	1	2	7	10	13	--
Ohio										
Brown Swiss	5	11	1	17	9	15	85	109	126	29
Holstein	--	--	--	--	--	--	1	1	1	4
Jersey	--	--	--	--	--	2	2	4	4	--
Texas										
Brown Swiss	3	1	16	20	--	17	95	112	132	--
Holstein	--	--	--	--	--	3	54	57	57	--
Jersey	--	--	--	--	--	--	2	2	2	--
Guernsey	--	2	--	2	--	--	--	--	2	--
Wisconsin										
Brown Swiss	2	8	--	10	17	13	49	79	89	--
Holstein	1	13	1	15	1	32	53	86	101	--
Other States										
Brown Swiss	--	--	--	--	1	--	2	3	3	--
Holstein	--	--	2	2	--	--	--	--	2	--
Total	15	49	22	86	40	115	354	509	595	2/45
Venezuela:										
Florida										
Brown Swiss	1	3	8	12	--	--	10	10	22	52
Holstein	--	--	1	1	--	--	3	3	4	--
Jersey	--	1	--	1	--	1	3	4	5	--
Illinois										
Brown Swiss	3	11	1	15	--	5	36	41	56	100
Holstein	1	--	--	1	--	--	26	26	27	160
Indiana										
Brown Swiss	--	--	--	--	--	--	19	19	19	--
Massachusetts										
Brown Swiss	--	--	--	--	--	--	9	9	9	--
Mississippi										
Ayrshire	--	--	--	--	--	--	1	1	1	--
Brown Swiss	1	32	4	37	3	4	28	35	72	68
Guernsey	--	--	--	--	--	--	1	1	1	--
Holstein	--	--	--	--	--	--	3	3	3	3
Ohio										
Brown Swiss	5	8	7	20	--	14	120	134	154	161
Holstein	--	1	--	1	--	--	85	85	86	82
Pennsylvania										
Guernsey	3	2	--	5	2	13	--	15	20	--
Tennessee										
Brown Swiss	--	6	5	11	--	5	55	60	71	15
Texas										
Brown Swiss	5	11	5	21	1	4	1	6	27	--
Holstein	1	--	--	1	--	--	21	21	22	--
Jersey	--	1	--	1	--	4	--	4	5	--
Wisconsin										
Brown Swiss	--	16	12	28	--	2	149	151	179	188
Holstein	--	4	--	4	--	--	106	106	110	40
Other States										
Brown Swiss	--	--	1	1	--	--	16	16	17	19
Total	20	96	44	160	6	52	692	750	910	2/1,227
Other Countries:										
Brown Swiss	1	3	2	6	2	--	--	2	8	8
Guernsey	2	5	--	7	--	2	--	2	9	1
Holstein	5	15	5	25	2	4	1	7	32	34
Jersey	--	1	--	1	--	--	1	1	2	8
Total	8	24	7	39	4	6	2	12	51	51
Grand Total	224	314	141	679	620	1,361	10,285	12,266	12,945	1/7,714

1/ Based on 11 months data.
2/ Figures above this total are for specified states and breeds only and do not necessarily add to this figure which represents total exports. For more detailed breakdown for 1959, see Dairy Cattle Circular FD 4-60.

Foreign Agricultural Service. Compiled from official health certificates and test charts of Agricultural Research Service.

Table 2.--Breeding cattle, dairy: Inspections for export from the United States, by country of destination, State of origin, breed, age, and sex, annual 1960 with comparison 1/ Continued

Country of destination, State of origin, and breed	Male				Female				Total	
	Under 1 year	1 yr. and under 2 yrs.	2 years and over	All ages	Under 1 year	1 yr. and under 2 yrs.	2 years and over	All ages	1960	1959
	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head
Wisconsin										
Brown Swiss	1	--	--	1	18	8	8	34	35	24
Holstein	2	2	--	4	6	5	15	26	30	75
Other States										
Brown Swiss	1	--	--	1	1	4	18	23	24	1
Holstein	2	2	--	4	4	--	--	4	8	11
Jersey	--	--	--	--	--	--	1	1	1	--
Total	50	26	23	99	172	263	1,134	1,569	1,668	2/1,136
Colombia:										
Florida										
Brown Swiss	--	1	1	2	--	2	1	3	5	--
Illinois										
Holstein	--	2	--	2	25	5	--	30	32	--
New Jersey										
Brown Swiss	2	--	--	2	4	8	11	23	25	--
Ohio										
Brown Swiss	--	--	--	--	17	7	--	24	24	--
Holstein	--	--	--	--	--	1	--	1	1	--
Texas										
Holstein	--	1	--	1	--	--	--	--	1	--
Wisconsin										
Holstein	--	1	--	1	5	6	4	15	16	7
Total	2	5	1	8	51	29	16	96	104	2/7
Costa Rica:										
Florida										
Brown Swiss	--	1	--	1	--	--	--	--	1	--
Massachusetts										
Guernsey	3	--	--	3	--	--	--	--	3	--
New Jersey										
Brown Swiss	4	--	--	4	--	2	3	5	9	--
New York										
Guernsey	--	1	--	1	--	1	--	1	2	--
Ohio										
Brown Swiss	--	1	--	1	--	--	--	--	1	1
Washington										
Holstein	--	1	--	1	--	--	--	--	1	--
Wisconsin										
Brown Swiss	1	1	--	2	1	9	--	10	12	--
Total	8	5	--	13	1	12	3	16	29	2/61
Cuba:										
Florida										
Ayrshire	--	--	--	--	--	--	4	4	4	--
Brown Swiss	--	--	--	--	--	15	67	82	82	--
Guernsey	--	--	--	--	--	2	51	53	53	--
Holstein	--	--	--	--	--	102	583	685	685	31
Jersey	--	--	--	--	--	--	86	86	86	1
Illinois										
Brown Swiss	--	--	--	--	--	10	82	92	92	--
Guernsey	--	--	--	--	--	--	6	6	6	--
Holstein	--	--	--	--	--	--	61	61	61	--
Indiana										
Brown Swiss	--	--	--	--	--	15	146	161	161	--
Guernsey	--	--	--	--	--	2	46	48	48	--
Holstein	--	--	--	--	--	144	918	1,062	1,062	--
Iowa										
Holstein	--	--	--	--	--	--	79	79	79	--
Kentucky										
Holstein	--	--	--	--	--	--	5	5	5	--
Jersey	--	--	--	--	--	--	47	47	47	--
Michigan										
Brown Swiss	--	--	--	--	--	--	20	20	20	--
Minnesota										
Brown Swiss	--	--	--	--	--	16	78	94	94	--
Guernsey	--	--	--	--	--	8	--	8	8	--
Holstein	--	--	--	--	--	--	275	275	275	--
Mississippi										
Ayrshire	--	--	--	--	--	--	1	1	1	--
Brown Swiss	--	--	--	--	--	--	1	1	1	--
Guernsey	--	--	--	--	--	--	1	1	1	--
Holstein	--	--	--	--	1	1	73	75	75	--
Jersey	--	--	--	--	--	45	77	122	122	--
Ohio										
Brown Swiss	--	--	1	1	--	--	12	12	13	--
Tennessee										
Ayrshire	--	--	--	--	--	--	15	15	15	--
Brown Swiss	--	--	--	--	--	--	16	16	16	--
Guernsey	--	--	--	--	--	2	8	10	10	--
Holstein	--	--	--	--	--	6	332	338	338	--
Jersey	--	--	--	--	--	26	197	223	223	--
Wisconsin										
Brown Swiss	--	--	--	--	--	15	34	49	49	--
Guernsey	--	--	--	--	--	9	20	29	29	--
Holstein	--	--	--	--	--	172	346	518	518	--
Total	--	--	1	1	1	590	3,687	4,278	4,279	2/32
Dominican Republic:										
Florida										
Brown Swiss	--	--	--	--	1	10	2	13	13	176
Holstein	--	--	--	--	--	--	35	35	35	234
Texas										
Brown Swiss	--	--	--	--	--	1	2	3	3	40
Guernsey	--	--	--	--	--	2	--	2	2	--
Jersey	--	--	--	--	--	--	4	4	4	5
Total	--	--	--	--	1	13	43	57	57	2/548
Ecuador:										
New York										
Ayrshire	1	1	--	2	13	--	15	28	30	1
Total	1	1	--	2	13	--	15	28	30	2/43

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FOREIGN AGRICULTURE CIRCULAR

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WORLD OUTPUT OF DAIRY PRODUCTS

UP IN 1960

World production of manufactured dairy products (milk equivalent-fat basis) in the major dairy producing countries was up about 5 percent in 1960, compared with 1959.

In Western Europe, conditions generally were favorable for dairying. Denmark was the only country in this area to report reduced output of dairy products. The decline there can be attributed mainly to a slight drop in the number of cows and to some reduction in use of protein concentrates in feed rations.

Milk production in France set a record in 1960 when milk cow numbers and yield per cow were up. Output was up 13 percent over the drought reduced level of 1959. In West Germany, cow numbers were slightly higher because of a decline in slaughterings. Feed and forage were plentiful and production per cow was above 1959.

Large crops of feed, including some substandard food grain, and more milk cows, raised milk production in Finland above that of 1959. In Sweden, milk cow numbers were down, but yields were up.

Several factors contributed to the increase in milk production in the Netherlands. Cow numbers were up, the quality of hay and other fodder from the 1959 crop was excellent, and weather conditions during the summer of 1960 were favorable to pastures.

Milk cow numbers were slightly higher in Belgium, Norway, the United Kingdom and Ireland. Output of milk in these countries was up substantially over 1959.

Unfavorable weather in Australia and New Zealand in the first half of the year curtailed milk production with a resultant slight drop in output in both countries for the year as a whole.

Milk production in Canada during 1960 broke all previous records. In the United States, production showed a small gain over the preceding year.

Creamery butter output in 1960 increased 6 percent over the preceding year. Western Europe's total production was up 12 percent. Only Denmark reported reduced output. The decline there was in line with the reduced output of milk and increased consumption of fluid milk. In West Germany, more milk was delivered to dairies for processing into dairy products than in the previous year. Butter took 72 percent of total manufacturing supplies.

More milk was available to plants in the Netherlands and butter production rose appreciably over 1959. Increased deliveries to processors also accounted for substantial gains in the output of butter in Norway, Sweden and Ireland.

Higher production in the first six months of 1960 offset a decline in the second half of the year in Switzerland, and output for the year as a whole showed a substantial increase over 1959.

Commercial milk production was up about 10 percent in the United Kingdom. Larger quantities were available for manufacturing use than in the preceding year and a considerable portion of the total supply went into the production of butter. Gains also occurred in France, Finland and Belgium.

In Australia and New Zealand, the drop in milk production reduced supplies available for manufacturing use and butter output was down.

In Canada, output of butter declined as more milk went into the production of other dairy products. Production of butter in the United States was up 4 percent.

Output of factory cheese was 4 percent above the preceding year. In Norway and Sweden, larger quantities of milk went into the manufacture of dairy products, particularly cheese. Output in Switzerland continued its upward trend. Cheese production in the United Kingdom was also up from a year earlier. In the Netherlands, production showed little change.

In Denmark, output of cheese declined. In France, production was slightly below that of 1959.

Favorable market conditions for cheese in Australia caused production to be maintained at a high level. New Zealand reported output practically unchanged from a year earlier.

Somewhat larger quantities of milk were used for cheese production in Canada. Output in the United States showed a substantial gain.

Production of canned milk (condensed and evaporated) in 1960 was up 2 percent. Both the Netherlands and West Germany recorded increases in total canned milk production. In the United Kingdom, output was also higher. Production of evaporated whole milk, which is about twice that of condensed whole milk, was up approximately 6 percent over 1959. Output was also up in France, the only other country in Western Europe reporting production of canned milk.

In Australia, a very appreciable gain in evaporated milk production was offset by a sharp decline in output of condensed milk and total canned milk output was down.

In Canada, production of canned milk, most of which is evaporated whole milk, was up 3 percent. The reduction in canned milk output in the United States was due entirely to lower output of evaporated milk.

Production of dried milk, largely nonfat dry milk, rose 15 percent in 1960 compared with a year earlier. Output was up in the seven West European countries reporting. (See table.)

Production was down in Australia, where output of nonfat dry milk declined sharply from the record level of 1959.

Dried whole milk production in Canada more than doubled in 1960, largely the result of the dried whole milk purchase program instituted by the government in an effort to reduce the production of butter and nonfat dry milk. Output of nonfat dry milk was down. In the United States, output of nonfat dry milk ran well ahead of 1959. Production of dried whole milk, produced on a much smaller scale than nonfat dry milk, also increased in 1960.

Current Conditions Abroad

Denmark: Milk production in 1961 is expected to be slightly smaller than in 1960, mainly because of the downward trend in cow numbers.

France: Feed is in plentiful supply due to the mild winter. Milk production so far in 1961 has been above that of the comparable 1960 period.

West Germany: Milk production is expected to be up in 1961. Butter production is likely to continue to increase and there is a possibility that 1961 production will fully meet domestic requirements.

Sweden: Prospects are for a somewhat lower milk production in 1961, due to the low quality of the feed and a probable continued decline in cow numbers.

Switzerland: A further increase in milk production is expected. Stocks of hay are abundant.

United Kingdom: Early pasture conditions are generally considered good. Feed is in adequate supply. Milk production in the coming months is expected to be well above the 1960 level.

Australia: Seasonal conditions are satisfactory in most dairying districts and assuming favorable autumn weather, a recovery in milk production in 1961 is anticipated.

UNITED STATES DEPARTMENT OF AGRICULTURE
1862 1962

Growth Through Agricultural Progress

DRIED MILK: Output in Principal Producing and Exporting Countries, 1959 and 1960 (Preliminary)

Product and country	Total 1959	Total 1960	1960 compared with 1959
	1,000 pounds	1,000 pounds	Percent
Dried whole milk:			
Canada	20,872	45,829	220
United States	99,129	101,150	102
Belgium	12,037	19,240	160
France 1/	110,984	178,883	161
Germany, West	22,352	31,065	139
Netherlands	115,118	122,935	107
Sweden	16,682	19,019	114
United Kingdom	61,600	58,464	95
Australia	42,466	42.105	99
Nonfat dry milk:			
Canada 2/	176,437	166,819	95
United States 3/	1,743,372	1,860,000	107
Belgium	51,403	71,116	138
Germany, West	141,350	171,659	121
Netherlands	59,050	118,839	201
Sweden	21,003	36,817	175
United Kingdom	46,368	129,472	279
Australia	92,783	84,988	92
New Zealand	104,743	4/108,935	104

1/ Total dried milk production. 2/ Approximately 1.8 to 2.0 million pounds of animal feed included in production data. 3/ Includes dry milk for animal feeding. 4/ Estimated.

FACTORY DAIRY PRODUCTS: Output in
Principal Producing and Exporting Countries, 1959, and 1960 (Preliminary)

Country	1959 January through June	1959 July through December	1960 January through June	1960 July through December	Annual 1959	Annual 1960	1960 compared with 1959
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Percent
BUTTER							
Canada	146,526	181,774	150,909	171,933	328,300	322,842	98
United States	754,537	579,086	791,600	596,380	1,333,623	1,387,980	104
Belgium	--	--	--	--	103,535	114,458	111
Denmark	194,226	176,147	199,075	167,770	370,373	366,845	99
Finland	94,033	87,143	101,603	1/ 94,606	181,176	1/196,209	108
France	239,360	153,138	223,425	244,909	392,498	468,334	119
Germany, West	445,644	382,990	471,969	423,158	828,634	895,127	108
Ireland	36,064	50,624	38,629	62,798	86,688	101,427	117
Netherlands	87,240	91,498	123,844	97,842	178,738	221,686	124
Norway	19,614	13,168	24,711	14,070	32,782	38,781	118
Sweden	88,459	83,193	95,566	88,161	171,652	183,727	107
Switzerland	38,604	34,148	43,755	33,185	72,752	76,940	106
United Kingdom	22,176	9,856	47,264	36,512	32,032	83,776	262
Argentina	70,106	65,375	72,983	1/65,057	135,481	1/138,040	102
Union of So.Africa	44,043	38,621	46,705	1/49,920	82,664	1/96,625	117
Australia	186,709	264,194	172,002	242,304	450,903	414,306	92
New Zealand	195,037	290,166	182,508	298,216	485,203	480,724	99
CHEESE							
Canada 2/	40,825	66,831	48,063	60,752	107,656	108,815	101
United States	750,089	631,470	771,005	703,545	1,381,559	1,474,550	107
Denmark	137,788	115,961	136,465	113,977	253,749	250,442	99
France	387,946	361,750	376,438	365,408	749,696	741,846	99
Netherlands	220,189	205,572	223,496	203,218	425,761	426,714	100
Norway	49,860	36,443	49,933	38,216	86,303	88,149	102
Sweden	61,215	55,100	65,927	52,919	116,315	118,846	102
Switzerland	64,244	73,764	69,957	81,499	138,008	151,456	110
United Kingdom 3/	114,016	82,208	133,504	109,984	196,224	243,488	124
Argentina	131,905	125,336	132,741	1/123,729	257,241	1/256,470	100
Union of So.Africa	14,571	15,578	15,246	1/19,249	30,149	1/ 34,495	114
Australia	38,249	62,260	37,516	65,049	100,509	102,565	102
New Zealand	78,753	130,883	77,513	132,039	209,636	209,552	100
CANNED MILK							
Canada 4/	167,902	165,362	175,290	167,311	333,264	342,601	103
United States 5/	1,248,937	1,079,670	1,186,480	1,055,071	2,328,607	2,241,551	96
France	125,874	88,433	142,913	74,650	214,307	217,563	102
Germany, West	384,278	353,630	459,543	370,981	737,908	830,524	113
Netherlands	387,756	371,881	423,758	435,868	759,637	859,626	113
United Kingdom	243,488	162,400	263,648	153,440	405,888	417,088	103
Argentina	12,910	13,915	13,015	1/12,990	26,825	1/26,005	97
Australia 6/	56,602	101,654	61,190	87,038	158,256	148,228	94
DRIED MILK 7/							
Canada 8/	93,420	103,889	101,199	111,449	197,309	212,648	108
United States 8/	1,088,837	753,664	1,166,970	794,180	1,842,501	1,961,150	106
Belgium	--	--	--	--	63,440	90,356	142
France	57,081	53,903	85,160	93,723	110,984	178,883	161
Germany, West	94,372	69,330	122,634	80,090	163,702	202,724	124
Netherlands	111,536	62,632	154,772	87,002	174,168	241,774	139
Sweden	20,850	16,835	32,674	23,162	37,685	55,836	148
Switzerland	10,813	24,681	13,391	28,276	35,494	41,667	117
United Kingdom	68,320	39,648	112,896	75,040	107,968	187,936	174
Argentina	13,470	11,630	14,845	1/ 13,840	25,100	1/28,685	114
Australia	48,560	86,689	46,784	80,309	135,249	127,093	94
New Zealand 9/	30,115	74,628	35,945	1/ 72,990	104,743	1/108,935	104

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1. Estimated. 2. Cheddar cheese only. 3. Total Cheese production. 4. Both bulk and case goods. 5. Evaporated whole and condensed whole case goods only. 6. Includes mixtures of full cream and skim milk, mixtures of full cream, skim and buttermilk, and "coffee and milk:" 7. Dried whole milk and nonfat solids production. 8. Includes dried milk for animal feeding. 9. Nonfat dry milk production only.

Foreign Agricultural Service. Compiled from official statistics of foreign governments, other foreign source materials, reports of U. S. Agricultural Attaches and Foreign Service Officers, results of office research and related information.

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Washington 25, D. C.

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PER CAPITA CONSUMPTION OF DAIRY PRODUCTS, 1958, 1959 AND INDICATED 1960

Summary

Preliminary data shows that the overall average per capita consumption of fluid milk and dairy products (whole milk equivalent basis) recovered significantly in 1960 from the low level of 1959. Consumption totaled 732 pounds in 1959, compared with 738 pounds in 1958 in the 17 countries for which sufficient data are available. The decline was mainly due to lower consumption of butter.

Fluid milk and cream consumption, both total and per capita, were up in 1959. Total consumption of butter was down 2 percent to 5.9 billion pounds, which resulted in a 0.4 pound decline in per capita use. Although 13 countries reported increased consumption in 1959, total cheese consumption was down slightly as France and the United Kingdom reported substantial declines. Total use of canned and dried milk increased 4 percent and 18 percent, respectively.

Ireland continued to use the most dairy products per person, with an average whole milk equivalent consumption of 1,546 pounds in 1959. However, this was down 34 pounds from 1958. Although Finland's per capita use increased 38 pounds over 1958 to 1,313 pounds, New Zealand remained the second largest per capita consumer with 1,322 pounds. After having jumped from tenth to fourth place in milk equivalent use of all dairy products in 1958, Denmark fell back to sixth place in 1959, due to a substantial decline in butter consumption. (See Table 1.)

On a per capita basis, Finland was again the leading consumer of fluid milk and cream. New Zealand regained its position as number one consumer of butter after having been displaced by Ireland in 1958. Switzerland and France reversed their respective positions held in 1958 in per capita consumption of cheese. Switzerland became the leading user in 1959, while France dropped from first to third, the position held by Switzerland in 1958. Norway continued to rank second. Canada and the United States

maintained their positions of Number one and Number two consumers, respectively, of canned (evaporated and condensed) milk. The Netherlands jumped from fourth to first place as user of dried (dry whole and dried skim) milk. Even though the United States increased per capita use of dried milk 0.5 pound, its ranking declined from third to fourth. (See Table 2.)

Milk Production

Milk production in the 17 countries during 1959 did not change materially from the 371 billion pounds in 1958. Twelve countries reported a rise in total production, while only 10 reported an increase on a per capita basis. Austria and Canada were the exceptions, reporting greater total production, but less per capita. Australia and Italy increased total production 9 and 5 percent, respectively. West Germany reported its second successive 3 percent increase. U. S. production declined for the third successive year in 1959; the first time this has happened since 1948.

Consumption of Dairy Products, Milk Equivalent Basis, 1959

Total consumption of fluid milk and dairy products in 1959, on a whole milk equivalent basis in the 17 reporting countries, was up only slightly over 1958. The 2.9 billion pound increase in use of fluid milk and cream more than offset the decline in butter and cheese consumption. Contrary to the previous 2 years, population growth exceeded the rate of increase in total consumption; thus, average per capita consumption for the 17 countries declined, totaling 732 pounds in 1959 compared with 738 pounds in 1958.

Per Capita Consumption

Fluid Milk: Average per capita consumption of fluid milk was 325 pounds in 1959 up 3 pounds from the 1958 rate of 322 pounds. Eleven countries reported greater per capita use, 2 showed no change, and 4 reported declines from the year before.

In Denmark, as in 1958, there was a diversion of milk from manufacturing use and a concerted effort was made to increase fluid consumption. Mainly because of this program there was a 26-pound per capita increase. Per capita consumption in Italy and Belgium increased 17 pounds and 15 pounds, respectively. The substantial upturn in Italy was mainly due to the 5 percent increase in milk production; milk going into manufacture was up only slightly.

In the Netherlands the fluid supply was up 5 percent to 3,442 million pounds, but due to a 35 percent increase in exports, per capita use was up only 6 pounds. Except for West Germany and the United Kingdom, none of the more populous countries reported substantial increases. Both of these countries showed gains of 4 pounds per person. U. S. consumption remained the same for the third successive year. France was the only country in Western Europe to reflect noticeably the severity of the drought of mid-1959 on fluid milk use. Per capita use in France declined 13 pounds. Consumption would have been down further, but supplies were abetted by imports, totaling 19 million pounds, compared with negligible quantities in previous years. Due to a diversion of milk from fluid use to butter manufacture in Finland, per capita consumption of the former was down 24 pounds.

Butter: After being at a postwar record level in 1958, butter consumption declined slightly in 1959. Total consumption declined 2 percent to 5.9 billion pounds, while average per capita consumption was down 0.4 pounds per person to 12.8 pounds. Ten countries reported declines in per capita use and 7 reported gains.

The drop in consumption in Western Europe in 1959 was attributed mainly to the summer drought, with resultant short supplies, and higher prices in the latter half of the year. Due to the price rise for butter, the butter-margarine price differential widened substantially in late 1959. This had a noticeably depressing effect on butter consumption in Denmark, the Netherlands, the United Kingdom, Ireland and Belgium, whereas the first 3 mentioned countries increased margarine use an average of 2.0 pounds per person. Of these 6 countries, Denmark showed the greatest decline in per capita use of butter as it dropped 6.4 pounds to 23.5 pounds. With a 45 percent increase in the average wholesale price of butter in 1959 over 1958, with only moderate changes in the price of margarine, the price differential between butter and margarine widened significantly. Margarine consumption increased 2.9 pounds per person but in contrast to most other countries, remained below prewar levels.

Ireland and the Netherlands reported declines of 2.0 pounds per person while Belgium reported a decline of 1.2 pounds. The declines in the Netherlands and Belgium were mainly due to a diversion of milk from butter manufacture to the fluid market and other uses. This was also true in Ireland to a small degree, but total milk production was down 423 million pounds and supplies going into butter production declined the most.

The United Kingdom, the world's largest butter market, experienced in 1959 the first decline in per capita use in eight years, as it dropped 1.3 pounds to 18.8 pounds per person. Domestic butter production fluctuates widely and in years of small output like 1959, supplies are usually built up by increasing imports from some of the minor butter exporting countries. However, in 1959 butter was not available from these countries as supplies were short due to the summer drought or changed marketing channels, i.e., diversion of more milk to other uses, or exports of small quantities to other countries.

Reflecting partially the increased price differential between butter and margarine, U. S. butter consumption dropped from 8.4 pounds per person in 1958 to 8.0 pounds per person in 1959. The average retail price of butter rose slightly over 1 percent in 1959, while the average retail price of margarine was about 5 percent below 1958. Subsequently, the price ratio between butter and margarine changed from 2.7:1 in favor of margarine after having held at 2.5:1 or less during the previous 5 years.

Canadian per capita consumption of butter was down 8 percent to 18.2 pounds in 1959. As in the United States, the decline was mainly due to a slight change in the butter-margarine price ratio in favor of margarine.

Cheese: Mainly due to substantial decreases in France and the United Kingdom, total cheese consumption was down slightly in 1959, even though 13 of the 17 countries reported increases in total consumption. France, the world's second largest producing country, reported per capita use at 17.5 pounds, a decline of 1.5 pounds from the previous year. Per capita consumption declined 0.7 pound in the United Kingdom to 9.4 pounds.

These 2 countries appear to have been the only ones where consumption of cheese was materially affected by the dry summer of 1959. France's production declined 66 million pounds, reflecting the substantial decrease in whole milk available for cheese manufacture. Although the United Kingdom increased imports 15 percent to 305 million pounds, high prices throughout the year, diminished consumption and caused stocks to rise slightly at the end of the year. Norway's per capita use declined by 1.0 pound, as slightly more cheese was exported.

Condensed and Evaporated Milk: Total consumption of canned milk (including canned skim milk) totaled 5,252 million pounds in 1959 compared with 5,055 million pounds in 1958. Twelve of the 13 countries from which canned milk data was available reported more total use. However, on a per capita basis, only 7 countries showed an increase.

Although both countries showed declines on a per capita basis, Canada and the United States remained the Number one and two consuming countries, respectively, Canada's consumption was 19.0 pounds per person in 1959 compared with 19.4 in 1958, while U. S. use declined 0.2 pounds to 18.8 pounds. Per capita consumption has been declining steadily in the United States from the high point of about 28 pounds immediately after World War II.

The Netherlands increased canned milk production 18 percent to 743.4 million pounds in 1959 and although exports were up substantially, domestic consumption increased 3.0 pounds per person to 14.6 pounds. Since 1951 when data was first reported, West Germany has increased the use of canned milk an average of about 1.0 pound per person per year to bring the total in 1959 to 14.1 pounds per person.

Dried Milk: Total consumption of dried milk (including dried skim) increased 18 percent in 1959 to 2,137 million pounds. Eleven of the 12 countries reporting on this product showed increases. Of the more populous countries, the United States, West Germany, and the United Kingdom showed a rise in per capita use of 0.5 pound, 1.5 pounds, and 0.6 pound, respectively. In each case the increase was almost entirely due to greater use of nonfat dry milk. Such gains in per capita use in these 3 countries increased total use from 1,386 million pounds in 1958 to 1,620 million pounds in 1959, or 76 percent of total consumption, as reported by the 12 countries.

The Netherlands reported a per capita increase of 2.1 pounds of nonfat dry milk and 1.6 pounds for dry whole milk. This substantial gain was, no doubt, related to the impact of the summer drought in France and the diversion of a considerable quantity of fluid milk from the Netherlands to the City of Paris, during the last quarter of 1959. Belgium's consumption increased 1.6 pounds per person, entirely due to the increase in nonfat dry milk.

Indications for 1960

Preliminary indications are that consumption of dairy products recovered significantly in 1960 from the low level of 1959. World butter and cheese prices started to decline in the first quarter of 1960 and although they did not reach the low levels of 1958, they were appreciably under the drought-induced prices of late 1959. Preliminary data for 1960 shows that world production of butter will be up about 3 percent to 10.4 billion pounds; however, many of the major consuming countries will again report smaller total disappearance as prices in these countries continued high relative to margarine.

Butter consumption, total and per capita, in North America (United States and Canada) showed a decline in 1960. With an increase in production but a decline in total use, government held supplies at the end of the year were up appreciably in both countries. Per capita consumption of butter in the U. S. was 7.8 pounds in 1960; the first time on record that consumption has fallen below 8.0 pounds per person. Canada reports preliminary consumption at 16.1 pounds per capita in 1960 compared with 18.2 pounds in 1959.

There was a further drop in U. K. butter consumption in 1960 as per capita use was 18.0 pounds compared with 18.8 pounds in 1959. Total supply in the United Kingdom increased 3 percent to 1,029 million pounds, but mainly due to relatively high prices through the first three quarters of the year, consumption suffered, while stocks increased 100 percent from the previous year, to 60 million pounds at the end of 1960.

Mainly due to another increase in consumption in West Germany and France, total use was up slightly on the Continent. West Germany increased per capita consumption about 2 percent to 17.8 pounds while France's consumption was up about 1 percent to 17.0 pounds. Preliminary indications show that the smaller producing countries reported consumption at about the same level as in 1959, or up only slightly. Australia and New Zealand reported total use at about the same levels as in 1959.

Mainly due to a 6 percent increase in consumption in the United States, world cheese consumption was up substantially in 1960. Per capita use was up about 4 percent to 8.4 pounds, resulting in a total use of 1.5 billion pounds. Italy and France, the second and third largest cheese consuming countries in 1959, consumed about the same amount in 1960. However, West Germany's consumption rose for the sixth successive year and per capita use in the United Kingdom recovered to about 9.9 pounds, equaling the high level of 1958.

Total fluid milk and cream consumption was up slightly in 1960 as many countries in Western Europe continued to strive to increase such use. Per capita use was up 17 percent in France to 235 pounds while the United Kingdom reported an increase of 4.0 pounds to 345 pounds. Although total use was up in the U. S., it did not increase sufficiently to offset the increase in population and per capita use declined slightly. In Canada, however, total and per capita use increased.

World consumption of canned milk set another record in 1960 even though the United States, the world's largest producer and consumer, again used less per person. Canada consumed slightly over the 1959 rate of 19.0 pounds per person. Indications are that West Germany, the United Kingdom, the Netherlands, and France all used more evaporated and condensed milk in 1960.

Mainly due to a slight leveling off of consumption in the United States and a decline in use in Western Europe, world consumption of dried milk was down substantially from the high level of 1959. U. S. use of dried milk totaled 1,145 million pounds, up 1 percent from 1959. Total use had been up 7 percent in 1958 and 12 percent in 1959. Consumption of nonfat dry milk accounts for over 90 percent of the total. In Canada per capita use dropped 6 percent to 6.7 pounds in 1960, due entirely to a decrease in consumption of nonfat dry milk. In Western Europe, total use was down substantially from 1959 when nonfat dry milk was used to supplement fluid milk supplies cut short in several areas by the severe summer drought.

Growth Through Agricultural Progress

TABLE 1.--MILK AND DAIRY PRODUCTS: Per capita production and consumption 1/ in 17 countries, 1958 and 1959 2/

Country	Production of fluid milk		Consumption											
			Total consumption in milk equivalent 3/		Fluid milk and cream		Butter		Cheese		Canned milk		Dried milk	
	1958	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958	1959
	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds
Austria 4/	864	863	653	653	351	352	10.0	9.8	5.8	6.0	0.4	0.5	1.1	1.7
Belgium	911	922	936	922	213	228	22.0	20.8	13.3	13.6	6.2	6.2	7.7	8.9
Denmark	2,513	2,626	1,083	978	363	389	29.9	23.5	16.7	16.7	5/	5/	5/	5/
Finland	1,576	1,623	1,275	1,313	632	608	29.7	32.6	5.0	5.3	5/	5/	5/	1.9
France	1,050	984	819	800	213	200	16.5	16.8	19.0	17.5	3.2	3.2	2.1	2.3
Germany, West	756	770	732	761	239	243	16.7	17.5	9.8	10.2	12.9	14.1	3.0	4.5
Ireland	2,152	2,008	1,580	1,546	445	451	44.5	42.5	1.8	2.8	5/	5/	5/	5/
Italy 6/	422	441	333	337	119	136	3.6	3.0	16.0	16.2	0.5	0.5	5/	
Netherlands	1,230	1,251	730	704	282	288	10.9	8.9	16.3	16.1	11.6	14.6	5.4	9.1
Norway	1,088	1,111	865	856	503	498	7.7	7.9	18.7	17.7	5.2	5.1	5/	5/
Sweden	1,170	1,125	1,034	1,068	428	431	21.2	22.8	17.0	16.5	1.0	1.2	4.5	4.2
Switzerland 4/	1,242	1,262	986	989	476	473	14.5	14.3	17.7	18.5	2.6	3.1	5/	5/
United Kingdom	512	493	865	838	337	341	20.1	18.8	10.1	9.4	6.3	6.7	4.3	4.9
Australia	1,365	1,460	943	953	302	304	25.5	25.8	6.4	6.4	7.9	8.9	5.3	5.5
New Zealand 7/	5,227	5,133	1,307	1,322	468	473	42.9	43.4	6.4	6.5	5/	5/	2.8	3.2
Canada	1,059	1,043	981	947	423	423	19.7	18.2	6.0	6.1	19.4	19.0	6.6	7.1
United States 8/	719	699	689	678	9/402	9/402	8.4	8.0	8.2	8.1	19.0	18.8	5.9	6.4

1/ Whole milk equivalent consumption of fluid cream and ice cream included with fluid milk. 2/ Preliminary. 3/ Fluid milk and dairy products in terms of whole milk equivalent. 4/ Includes goat milk. 5/ Not available, or not reported separately. A nominal figure for these two items has been included in total milk equivalent. 6/ Includes sheep and goat milk. 7/ Years ending June 30. 8/ Per capita consumption data as reported by the Agricultural Marketing Service, USDA. 9/ Includes milk equivalent for other dairy products consumed; e.g., dry cream, malted milk, dry ice cream mix, etc.

TABLE 2.--MILK AND DAIRY PRODUCTS: Relative position of 17 countries in per capita production and consumption, 1958 and 1959 1/

Country	Production of fluid milk		Consumption											
			Milk equivalent 2/		Fluid milk and cream		Butter		Cheese		Canned milk		Dried milk	
	1958	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958	1959
Ireland	3	3	1	1	5	5	1	2	17	17	3/	3/	3/	3/
New Zealand	1	1	2	2	4	4/ 4	2	1	5/13	13	3/	3/	9	9
Finland	4	4	3	3	1	1	4	3	16	16	3/	3/	3/	11
Sweden	8	8	5	4	6	6	7	6	4	5	11	11	6	8
Switzerland	6	6	6	5	3	4/ 3	12	12	3	1	10	10	3/	3/
Denmark	2	2	4	6	9	9	3	5	5	4	3/	3/	3/	3/
Australia	5	5	8	7	12	12	5	4	5/12	12	5	5	5	5
Canada	10	10	7	8	7	7	9	9	14	14	1	1	2	3
Belgium	12	12	9	9	6/15	15	6	7	8	8	7	7	1	2
Norway	9	9	10	10	2	2	16	16	2	2	8	8	3/	3/
United Kingdom	16	16	11	11	11	11	8	8	9	10	6	6	7	6
France	11	11	12	12	6/16	16	11	11	1	3	9	9	10	10
Germany, West	14	14	13	13	14	14	10	10	10	9	3	4	8	7
Netherlands	7	7	14	14	13	13	13	14	6	7	4	3	4	1
United States	15	15	15	15	8	8	15	15	11	11	2	2	3	4
Austria	13	13	16	16	10	10	14	13	15	15	13	7/13	11	12
Italy	17	17	17	17	17	17	17	17	7	6	12	7/12	3/	3/

1/ Derived from TABLE 1. 2/ Fluid milk and dairy products in terms of whole milk equivalent. 3/ Not available. 4/ New Zealand tied with Switzerland for third and fourth place. 5/ Australia tied with New Zealand for twelfth and thirteenth place. 6/ France tied with Belgium for fifteenth and sixteenth place. 7/ Austria tied with Italy for twelfth and thirteenth place.

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U.S. DEPARTMENT OF AGRICULTURE
Foreign Agricultural Service Washington D.C.

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DAIRY CATTLE EXPORTS

UP 51 PERCENT

U. S. exports of dairy cattle for breeding during the first half of 1960 were 4,159 head, an increase of 51 percent over the corresponding period of 1959.

The greatest increase was in exports to Mexico, which were more than twice that of the first 6 months of 1959. There were also increases in shipments to Canada and Venezuela of 54 percent and 28 percent, respectively.

Holsteins again led all other dairy breeds in numbers exported during the first 6 months of 1960. The Holstein total was the largest in the past 3 years. Mexico was by far the largest customer, taking 2,405 head out of a total of 2,914 head. The principal states of origin were Colorado, Minnesota, Wisconsin, California, and Texas.

Brown Swiss exports for the first 6 months of 1960 were down 5 percent, but still sufficient to maintain their position as the second largest export breed. Venezuela was the largest importer of U. S. Brown Swiss, taking 444 out of a total of 647 head. This market has grown over 100 percent in the past 4 years. The principal states of origin were Ohio, Wisconsin, and Tennessee.

Guernsey cattle exports for the half-year period were up a full 300 percent from a year earlier to a high point for the past 4 years. There were 517 Guernseys exported, with Canada taking the largest share, 383 head. Canada has been a steadily growing market for U. S. Guernseys, showing gains of over 400 percent in the past 4 years.

Jersey cattle exports were down a full 78 percent. The largest decreases were in sales to El Salvador and Canada -- a decrease of more than 100 head to each country. The largest single customer for Jersey cattle in this first 6 months was Cuba.

Ayrshire cattle exports were the lowest in 4 years. Only 9 Ayrshire cattle were exported.

Prospects for exports in the second half of 1960 appear bright, based on the visits of foreign buying teams to the United States and general inquiries from abroad regarding U. S. dairy cattle.

Growth Through Agricultural Progress

TABLE 1.--Breeding cattle, dairy: Inspections for export from the United States by breed, country of destination, age, and sex, January - June 1960 with comparisons.

Breed and country of destination	January-June 1960								Total	
	Male				Female					
	Under 1 year	1 year and under 2 years	2 years and over	All ages	Under 1 year	1 year and under 2 years	2 years and over	All ages	Jan-June 1960	Jan-June 1959
	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head
Ayrshire:										
Canada	--	--	--	--	--	--	2	2	2	22
Other countries	--	--	--	--	--	--	--	--	--	1/ 4
Total	--	--	--	--	--	--	2	2	2	26
Brown Swiss:										
Bahamas	--	--	--	--	--	2	18	20	20	--
Canada	9	--	2	11	16	5	42	63	74	43
Colombia	2	--	--	2	2	--	1	3	5	--
Costa Rica	4	1	--	5	--	--	--	--	5	9
Cuba	--	--	1	1	--	--	18	18	19	--
Dominican Republic	--	--	--	--	1	--	--	1	1	240
El Salvador	7	1	--	8	--	8	9	17	25	--
Mexico	6	12	8	26	--	4	22	26	52	2
Nicaragua	--	1	--	1	--	--	--	--	1	3
Peru	--	--	1	1	--	--	--	--	1	11
Venezuela	9	60	30	99	2	23	320	345	444	370
Other countries	--	--	--	--	--	--	--	--	--	1/ 5
Total	37	75	42	154	21	42	430	493	647	683
Guernsey:										
Bermuda	--	--	--	--	--	--	12	12	12	--
Br. Honduras	--	--	--	--	--	1	1	2	2	--
Canada	6	6	--	12	38	43	290	371	383	115
Costa Rica	3	--	--	3	--	--	--	--	3	--
Cuba	--	--	--	--	--	--	8	8	8	--
Germany, West	--	--	--	--	--	19	13	32	32	22
Mexico	7	2	--	9	3	2	56	61	70	12
Other countries	2	--	--	2	--	5	--	5	7	1/ 23
Total	18	8	--	26	41	70	380	491	517	172
Holstein:										
Argentina	2	3	1	6	2	1	--	3	9	--
Br. Honduras	8	--	--	8	--	34	3	37	45	--
Canada	7	4	5	16	23	18	71	112	128	106
Colombia	--	2	--	2	5	4	4	13	15	--
Cuba	--	--	--	--	--	--	71	71	71	31
Dominican Rep.	--	--	--	--	--	--	22	22	22	215
Germany, West	--	--	--	--	--	9	11	20	20	19
Guatemala	1	2	--	3	--	--	--	--	3	21
Japan	1	4	--	5	1	2	--	3	8	--
Korea	1	--	--	1	1	1	--	2	3	--
Mexico	13	29	22	64	71	74	2,196	2,341	2,405	934
Peru	--	1	--	1	--	--	2	2	3	16
Venezuela	2	1	1	4	--	--	171	171	175	119
Other countries	1	2	4	7	--	--	--	--	7	1/ 60
Total	36	48	33	117	103	113	2,551	2,797	2,914	1,521
Jersey:										
Canada	1	1	--	2	3	1	12	16	18	108
Cuba	--	--	--	--	--	--	43	43	43	--
Dominican Rep.	--	--	--	--	--	--	4	4	4	6
Mexico	--	1	--	1	--	--	7	7	8	75
Venezuela	--	1	--	1	--	1	3	4	5	--
Other countries	--	1	--	1	--	--	--	--	1	1/ 171
Total	1	4	--	5	3	2	69	74	79	360
Grand Total	92	135	75	302	168	257	3,432	3,857	4,159	2,762

1/ For more detailed breakdown see Foreign Agricultural Circular FD 16-59, for exports during January-June 1959.

TABLE 2.--Breeding cattle, dairy: Inspections for export from the United States, by country of destination, state of origin, breed, age, and sex, January through June 1960 with comparison.

Country of destination state of origin and breed	January-June 1960								Total	
	Male				Female					
	Under 1 year	1 year and under 2 years	2 years and over	All ages	Under 1 year	1 year and under 2 years	2 years and over	All ages	Jan-June 1960	Jan-June 1959
	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head
Argentina:										
Wisconsin										
Holstein	1	2	--	3	2	1	--	3	6	--
Other States										
Holstein	1	1	1	3	--	--	--	--	3	--
Total	2	3	1	6	2	1	--	3	9	--
Bahamas:										
Florida										
Brown Swiss	--	--	--	--	--	2	18	20	20	--
Total	--	--	--	--	--	2	18	20	20	1/ 16
Bermuda:										
New York										
Guernsey	--	--	--	--	--	--	12	12	12	--
Total	--	--	--	--	--	--	12	12	12	--
Br. Honduras:										
Maryland										
Guernsey	--	--	--	--	--	1	1	2	2	--
Holstein	6	--	--	6	--	28	--	28	34	--
Pennsylvania										
Holstein	2	--	--	2	--	6	3	9	11	--
Total	8	--	--	8	--	35	4	39	47	--
Canada:										
California										
Guernsey	--	--	--	--	1	--	1	2	2	--
Holstein	--	--	--	--	7	--	3	10	10	--
Jersey	--	--	--	--	--	--	1	1	1	--
Kansas										
Holstein	--	--	--	--	--	--	6	6	6	--
Maryland										
Guernsey	--	--	--	--	--	--	17	17	17	--
Holstein	--	1	--	1	--	--	--	--	1	1
Massachusetts										
Ayrshire	--	--	--	--	--	--	2	2	2	--
Guernsey	2	--	--	2	3	4	2	9	11	--
Minnesota										
Brown Swiss	--	--	--	--	1	--	--	1	1	9
Holstein	--	1	1	2	1	6	25	32	34	14
Montana										
Brown Swiss	1	--	1	2	--	4	5	9	11	--
New Jersey										
Brown Swiss	2	--	--	2	--	--	--	--	2	--
Guernsey	--	--	--	--	--	--	30	30	30	--
Jersey	--	1	--	1	--	--	1	1	2	13
New York										
Guernsey	1	2	--	3	10	19	129	158	161	47
Holstein	3	1	--	4	--	1	1	2	6	5
North Dakota										
Brown Swiss	1	--	--	1	13	1	17	31	32	8
Holstein	--	--	--	--	--	--	4	4	4	--
Ohio										
Guernsey	--	1	--	1	11	--	37	48	49	8
Holstein	1	--	1	2	3	--	4	7	9	1
Jersey	1	--	--	1	3	1	2	6	7	--
Pennsylvania										
Brown Swiss	4	--	1	5	1	--	17	18	23	--
Guernsey	--	2	--	2	8	9	53	70	72	5
Holstein	--	--	--	--	--	10	--	10	10	2
Washington										
Guernsey	3	1	--	4	5	11	21	37	41	10
Holstein	1	--	3	4	8	1	28	37	41	2
Jersey	--	--	--	--	--	--	8	8	8	4
Other States										
Brown Swiss	1	--	--	1	1	--	3	4	5	24
Holstein	2	1	--	3	4	--	--	4	7	78
Total	23	11	7	41	80	67	417	564	605	1/ 394
Colombia:										
Wisconsin										
Holstein	--	--	--	--	5	4	4	13	13	--
Other										
Brown Swiss	2	--	--	2	2	--	1	3	5	--
Holstein	--	2	--	2	--	--	--	--	2	--
Total	2	2	--	4	7	4	5	16	20	--
Cuba:										
Florida										
Brown Swiss	--	--	--	--	--	--	18	18	18	--
Guernsey	--	--	--	--	--	--	8	8	8	--
Holstein	--	--	--	--	--	--	71	71	71	31
Jersey	--	--	--	--	--	--	43	43	43	1
Ohio										
Brown Swiss	--	--	1	1	--	--	--	--	1	--
Total	--	--	1	1	--	--	140	140	141	32
Dominican Rep.:										
Florida										
Brown Swiss	--	--	--	--	1	--	--	1	1	147
Holstein	--	--	--	--	--	--	22	22	22	184
Texas										
Guernsey	--	--	--	--	--	2	--	2	2	--
Jersey	--	--	--	--	--	--	4	4	4	5
Total	--	--	--	--	1	2	26	29	29	1/ 461
El Salvador:										
Massachusetts										
Guernsey	--	--	--	--	--	1	--	1	1	--
Texas										
Brown Swiss	7	1	--	8	--	8	9	17	25	--
Total	7	1	--	8	--	9	9	18	26	1/ 119

(See the footnote at the end of the table.)

TABLE 2.--Breeding cattle, dairy: Inspections for export from the United States, by country of destination, state of origin, breed, age, and sex, January through June 1960 with comparison. (continued)

Country of destination state of origin and breed	January-June 1960								Total	
	Male				Female					
	Under 1 year	1 year and under 2 years	2 years and over	All ages	Under 1 year	1 year and under 2 years	2 years and over	All ages	Jan-June 1960	Jan-June 1959
	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head
Germany, West:										
Illinois										
Holstein	--	--	--	--	--	9	11	20	20	--
Massachusetts										
Guernsey	--	--	--	--	--	19	13	32	32	16
Total	--	--	--	--	--	28	24	52	52	1/ 54
Mexico:										
Arizona										
Guernsey	1	--	--	1	--	--	--	--	1	--
Holstein	--	--	--	--	--	--	14	14	14	10
California										
Brown Swiss	3	--	--	3	--	--	--	--	3	--
Guernsey	6	2	--	8	3	1	56	60	68	--
Holstein	5	21	14	40	63	6	243	312	352	59
Jersey	--	1	--	1	--	--	2	2	3	--
Colorado										
Holstein	4	1	2	7	4	17	579	600	607	122
Illinois										
Brown Swiss	--	--	--	--	--	1	--	1	1	--
Holstein	--	--	--	--	--	6	59	65	65	119
Iowa										
Holstein	--	--	--	--	--	--	43	43	43	--
Minnesota										
Brown Swiss	--	6	5	11	--	--	--	--	11	--
Holstein	--	1	--	1	--	6	578	584	585	265
New Mexico										
Holstein	--	1	--	1	--	--	40	40	41	11
New York										
Holstein	--	--	--	--	--	--	1	1	1	36
Ohio										
Brown Swiss	1	1	1	3	--	2	16	18	21	--
Texas										
Brown Swiss	--	5	2	7	--	1	4	5	12	2
Guernsey	--	--	--	--	--	1	--	1	1	4
Holstein	--	1	4	5	--	18	154	172	177	121
Jersey	--	--	--	--	--	--	5	5	5	74
Wisconsin										
Brown Swiss	2	--	--	2	--	--	2	2	4	--
Holstein	4	4	2	10	4	21	485	510	520	189
Total	26	44	30	100	74	80	2,281	2,435	2,535	1/ 1,027
Venezuela:										
Florida										
Brown Swiss	--	--	2	2	--	--	10	10	12	23
Holstein	--	--	1	1	--	--	3	3	4	--
Jersey	--	1	--	1	--	1	3	4	5	--
Illinois										
Brown Swiss	2	8	--	10	--	4	14	18	28	48
Holstein	1	--	--	1	--	--	--	--	1	49
Indiana										
Brown Swiss	--	--	--	--	--	--	11	11	11	--
Iowa										
Brown Swiss	--	--	--	--	--	--	3	3	3	--
Mississippi										
Brown Swiss	--	22	4	26	1	1	10	12	38	--
Holstein	--	--	--	--	--	--	2	2	2	--
New York										
Brown Swiss	--	--	--	--	--	--	7	7	7	138
Ohio										
Brown Swiss	2	8	7	17	--	9	105	114	131	80
Holstein	--	1	--	1	--	--	74	74	75	42
Tennessee										
Brown Swiss	--	6	5	11	--	5	55	60	71	--
Texas										
Brown Swiss	5	4	4	13	1	2	1	4	17	--
Holstein	1	--	--	1	--	--	21	21	22	--
Wisconsin										
Brown Swiss	--	12	8	20	--	2	104	106	126	76
Holstein	--	--	--	--	--	--	71	71	71	5
Total	11	62	31	104	2	24	494	520	624	1/ 489
Other countries:										
Brown Swiss	4	2	1	7	--	--	--	--	7	28
Guernsey	5	--	--	5	--	2	--	2	7	3
Holstein	4	9	4	17	2	3	2	7	24	97
Jersey	--	1	--	1	--	--	--	--	1	39
Total	13	12	5	30	2	5	2	9	39	1/ 170
Grand Total	92	135	75	302	168	257	3,432	3,857	4,159	2,762

1/ Figures above this total are for specified states and breeds only and do not necessarily add to this amount which represents total exports.

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